TOSHIBA

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# Operating Guide

## Integrated High Definition LCD Television

COLOR STREAM® HD  CINEMA SERIES PRO  HDTV HIGH-DEFINITION TELEVISION

VIRTUAL DOLBY DIGITAL  SRS WOW  SRS TruSurround 5.1 DIGITAL  TV GUIDE  HDMI

**42LZ196**
**47LZ196**

**IMPORTANT NOTE**

**Before connecting, operating, or adjusting this product, carefully read the Important Safety, Installation, Care, and Service information in the separate *Installation Guide*.**

For an overview of steps for setting up your new TV, see page 6.

Note: To display a High Definition picture, the TV must be receiving a High Definition signal (such as an over-the-air High Definition TV broadcast, a High Definition digital cable program, or a High Definition digital satellite program). For details, please contact your TV antenna installer, cable provider, or satellite provider.

**Owner's Record**

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number: _____

Serial number: _____

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(YC/M) VX1A00019400

# FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 42LZ196 and 47LZ196 Televisions** comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is:
Toshiba America Consumer Products, L.L.C.
82 Totowa Rd. Wayne, NJ 07470.
Ph: 1-800-631-3811

***Note:*** *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

***Caution:*** *Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.*

# Important notes about your LCD TV

**The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction; therefore, Toshiba is not responsible for perceived issues resulting from these symptoms.**

1) An afterimage (ghost) may appear on the screen if a fixed, non-moving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.
2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Such pixels are not visible when the picture is viewed from a normal viewing distance.

***Note:*** *Interactive video games that involve shooting a "gun" type of joystick at an on-screen target may not work with this TV.*

**Your TV may be connected to the internet to support firmware update, remote scheduling and e-mail capabilities. You should carefully review the information in this manual before connecting the TV to the internet or using these features.**

- If you use the remote scheduling capability of the TV, you will need an e-mail account that is used only for the TV. Use of non-dedicated accounts (e.g. accounts used to receive regular e-mail) will result in the deletion of e-mail in those accounts–even if they are used only for "test" purposes. See page 75 for more information.
- If you set up any personal e-mail accounts on the TV, any person with access to the TV will be able to read mail from all of those accounts. See page 71 for more information.
- If you connect the TV to the internet, any person with access to the TV will be able to configure the TV to access e-mail accounts for which they have account access information (user name, password and server addresses). See page 71 for more information.

# Trademark Information

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
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- CableCARD™ is a trademark of Cable Television Laboratories, Inc.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
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# Contents


**FCC Declaration of Conformity Compliance Statement (Part 15): . . . . . 2**

**Important notes about your LCD TV . . . . . 2**

**Trademark Information . . . . . 3**

**Chapter 1: Introduction . . . . . 6**
- Welcome to Toshiba . . . . . 6
- Features of your new TV . . . . . 6
- Overview of steps for installing, setting up, and using your new TV . . . . . 7
- TV front and side panel controls and connections . . . . . 8
- TV back panel connections . . . . . 9

**Chapter 2: Using the remote control . . . . . 11**
- Installing the remote control batteries . . . . . 11
- Remote control effective range . . . . . 11
- Learning about the remote control . . . . . 12
- Remote Control functional key chart . . . . . 14
- Using the remote control to operate your other devices . . . . 16
- Programming the remote control to operate your other devices . . . . . 16
  - Device code setup . . . . . 16
  - Searching and sampling the code of a device (8500) . . . 17
  - Using the volume lock feature (8000) . . . . . 17
  - Operational feature reset (8900) . . . . . 17
- Multi-brand remote control device codes . . . . . 18

**Chapter 3: Menu layout and navigation . . . . . 22**
- Main menu layout . . . . . 22
- Setup/Installation menu layout . . . . . 23
- THINC™ menu layout . . . . . 24
- Navigating the menu system . . . . . 24

**Chapter 4: Setting up your TV . . . . . 25**
- Selecting the menu language . . . . . 25
- Configuring the antenna input sources for the ANT 1 and ANT 2 terminals . . . . . 25
- Programming channels into the TV's channel memory . . . . 26
  - Programming channels automatically . . . . . 26
  - Manually adding and deleting channels in the channel memory . . . . . 27
- Setting the time and date . . . . . 28
- Setting the HDMI™ audio mode . . . . . 28
- Viewing the CableCARD™ menu . . . . . 29
- Viewing the digital signal meter . . . . . 29
- Viewing the system status . . . . . 30

**Chapter 5: Using the TV's features . . . . . 31**
- Selecting the video input source to view . . . . . 31
- Labeling the video input sources . . . . . 31
- Tuning channels . . . . . 32
  - Tuning channels using the Channel Browser™ . . . . . 32
  - Tuning to the next programmed channel . . . . . 34
  - Tuning to a specific channel (programmed or unprogrammed) . . . . . 34
  - Switching between two channels using Channel Return . . . . . 35
  - Switching between two channels using SurfLock™ . . . . 35
- Selecting the picture size . . . . . 36
- Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only) . . . . . 37
- Using the auto aspect ratio feature . . . . . 38
- Selecting the cinema mode (480i signals only) . . . . . 38
- Using the POP features . . . . . 39
  - Using the POP double-window feature . . . . . 39
  - Selecting the POP window audio out . . . . . 40
  - Using the FREEZE feature . . . . . 40
- Adjusting the picture . . . . . 41
  - Selecting the picture mode . . . . . 41
  - Adjusting the picture quality . . . . . 41
- Using the closed caption mode . . . . . 42
  - Closed Caption Advanced . . . . . 42
  - Digital closed captions . . . . . 43
  - Using the Closed Caption button on the remote control . . . . . 43
- Adjusting the audio . . . . . 43
  - Muting the sound . . . . . 43
  - Using the digital audio selector . . . . . 43
  - Selecting stereo/SAP broadcasts . . . . . 44
  - Adjusting the audio quality . . . . . 44
  - Using the StableSound® feature . . . . . 44
  - Turning off the built-in speakers . . . . . 45
  - Selecting the optical audio output format . . . . . 45
  - Using the Dolby Digital Dynamic Range Control feature . . . . . 45
- Using the Locks menu . . . . . 46
  - Entering the PIN code . . . . . 46
  - If you cannot remember your PIN code . . . . . 46
  - Changing your PIN code . . . . . 46
  - Blocking TV programs and movies by rating (V-Chip) . . . . . 47
  - Downloading an additional rating system for blocking TV programs and movies . . . . . 47
  - Blocking channels . . . . . 48
  - Unlocking programs temporarily . . . . . 49
  - Using the input lock feature . . . . . 49
  - Using the GameTimer™ . . . . . 50
  - Using the control panel lock feature . . . . . 50
- Setting the sleep timer . . . . . 51
- Setting the On/Off Timer . . . . . 51
- Using the PC settings feature . . . . . 52
- Setting the PC Audio mode . . . . . 52
- Displaying TV status information using RECALL . . . . . 53
- Understanding the auto power off feature . . . . . 53
- Understanding the last mode memory feature . . . . . 53

**Chapter 6: Using the TV's advanced features . . . . . 54**
- Using the advanced picture settings features . . . . . 54
  - Using dynamic contrast . . . . . 54
  - Using the static gamma feature . . . . . 54
  - Selecting the color temperature . . . . . 55
  - Using the Vertical Edge Enhancer feature . . . . . 55
  - Using CableClear® digital noise reduction . . . . . 56
  - Using MPEG noise reduction . . . . . 56
  - Using the Color Management Pro feature . . . . . 57
  - Using the Game Mode feature . . . . . 58
- Using the advanced audio settings features . . . . . 59
  - Using the SRS WOW™ surround sound feature . . . . . 59
  - Using the virtual surround sound feature (Dolby® Virtual/SRS TruSurround™) . . . . . 59

**Chapter 7: Using the THINC™ home network feature . . . . . 60**
A. Connecting the TV to your home network . . . . . 60
B. Setting up the network address . . . . . 61
Automatically setting up the network address . . . . . 61
Manually setting up the network address . . . . . 62
Resetting the network address . . . . . 63
C. Setting up file sharing on your PC . . . . . 63
Compatible operating systems . . . . . 63
Setting up file sharing on a PC with Microsoft® Windows® XP Service Pack 1 or Service Pack 2 . . 63
Setting up file sharing on a PC with Microsoft® Windows® 2000 . . . . . 65
D. Setting up file sharing on the TV . . . . . 66
Using the software keyboard . . . . . 67
About the Software Upgrade feature . . . . . 67
E. Viewing/playing shared files on the TV . . . . . 67
Media specifications . . . . . 67
Using the Picture Viewer . . . . . 68
Using the Audio Player . . . . . 70
F. Setting up Personal E-mail . . . . . 71
Required information and services . . . . . 71
Setting up personal e-mail . . . . . 71
G. Using the Personal E-mail . . . . . 73
Unread E-mail Notification . . . . . 73
E-mail Inbox . . . . . 73
Read View . . . . . 74
Message editing views . . . . . 75
H. Setting up e-mail scheduling . . . . . 75
Required information and services . . . . . 75
Setting up e-mail scheduling . . . . . 76
Description of fields in the “E-mail Scheduling Setup” window . . . . . 77
Description of fields in the “E-mail Account Setup” window . . . . . 78
I. Using e-mail scheduling . . . . . 79
E-mail parameters . . . . . 79
Sending a request e-mail to the TV . . . . . 79
Formatting a request e-mail . . . . . 80
Sample request e-mails . . . . . 80
Receiving an e-mail from the TV . . . . . 81
Modifying an existing recording or reminder . . . . . 81

**Chapter 8: Troubleshooting . . . . . 82**
General troubleshooting . . . . . 82
Home network troubleshooting . . . . . 84
LED indications . . . . . 86

**Chapter 9: Appendix . . . . . 87**
Specifications . . . . . 87
Limited United States Warranty for LCD Televisions 26” and Larger . . . . . 88
Limited Canada Warranty for LCD Televisions . . . . . 89

**Index . . . . . 91**

## Welcome to Toshiba

Thank you for purchasing this Toshiba TV, one of the most innovative LCD TVs on the market.

This digital television is capable of receiving analog basic, digital basic, and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services (such as video-on-demand, a cable operator's enhanced program guide, or data-enhanced television services) may require the use of a set-top box. For more information, call your local cable operator.

We have provided three separate Guides to facilitate the installation and operation of your TV.

**Please use the Guides in the order shown below to get the most enjoyment from your new TV.**

1) The *Installation Guide* explains how to connect your TV to your antenna and equipment.
2) The *Operating Guide* (this Guide) provides step-by-step instructions for using your TV's many features.
3) The *TV Guide On Screen™ Interactive Program Guide* explains how to set up and navigate the TV Guide On Screen™ system in your TV.

***Note:*** *The TV screen graphics in the Guides are for illustration purposes only and may be different from the screens displayed on your TV.*

## Features of your new TV

The following are just a few of the many exciting features of your new Toshiba widescreen, integrated HD, LCD TV:

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- **TV Guide On Screen™** no-fee interactive program guide (☞ *TV Guide On Screen™ Interactive Program Guide*).
- **Digital CableCARD™ slot** for viewing encrypted digital Cable TV programs (☞ *Installation Guide*).
- **Two HDMI™** digital, high-definition multimedia interfaces (☞ *Installation Guide*).
- **Two sets of ColorStream® HD** high-resolution component video inputs (☞ *Installation Guide*).
- **SRS WOW™** and **Dolby Virtual/SRS TruSurround™** (☞ page 59) audio technologies.
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (☞ page 45; also see the *Installation Guide*).
- **CableClear®** digital picture noise reduction (☞ page 56).
- Double-window POP feature (☞ page 39).
- **PC IN (Analog RGB)** computer terminal (☞ *Installation Guide*).
- **Ethernet (RJ-45) (THINC™) port** for connecting the TV to a home network to enable file sharing (JPEG, MP3), using personal e-mail, and e-mail scheduling of recordings and reminders (☞ Chapter 7 and *Installation Guide*).
- **Color Management Pro** allows to adjust standard colors as well as create 3 custom user colors. The menu will consist of 3 items: Color Management Control, Color Palette Adjustment, and Reset. The menu will also have a unique “black” design to enhance the contrast of the colors against the background.
- **Built-in E-mail** client for composing, viewing, replying and forwarding e-mails.

# Overview of steps for installing, setting up, and using your new TV

Follow these steps to set up your TV and begin using its many exciting features.

**1** Carefully read the important safety, installation, care, and service information in the separate *Installation Guide*. Keep this manual for future reference.

**2** Observe the following when choosing a location for the TV:

- Read the separate *Installation Guide*.
- Read the separate *TV Guide On Screen™ Interactive Program Guide*.
- Read "Important notes about your LCD TV" (☞ page 2).
- Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure as described in the *Installation Guide*.
- Place the TV in a location where light does not reflect on the screen.
- Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.

**3** Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.

**4** BEFORE connecting cables or devices to the TV, learn the functions of the TV's connections and controls (☞ pages 8–10).

**5** Connect your other electronic device(s) to the TV (☞ *Installation Guide*).

**6** Connect the supplied G-LINK™/IR blaster cable from your VCR and/or Cable box (if applicable) to the **G-LINK™** terminal so you can use the TV Guide On Screen™ features (applies to VCRs and cable boxes only) (☞ *Installation Guide*).

**7** Install the batteries in the remote control (☞ page 11).

**8** See "Learning about the remote control" (☞ page 12) for an overview of the buttons on the remote control.

**9** Program the remote control to operate your other device(s) (☞ pages 16–21).

**10** AFTER connecting all cables and devices, plug in the power cords for your TV and other devices.

**11** AFTER connecting all cables and devices, plug in the power cords for your TV and other devices. The red LED will blink until the TV goes into standby mode.

When the TV is in standby mode, press **POWER** on the TV control panel or remote control to turn on the TV. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn the TV off or on, press and hold the **POWER** button for 5 seconds to reset the TV.

**12** See "Menu layout and navigation" for a quick overview of the TV's menu system (☞ page 22).

**13** See the separate *TV Guide On Screen™ Interactive Program Guide* for details on setting up and using the TV Guide On Screen™ system (if available in your area).

**14** Program channels into the TV's channel memory (☞ page 26).

**15** For details on using the TV's features, see Chapters 5 and 6.

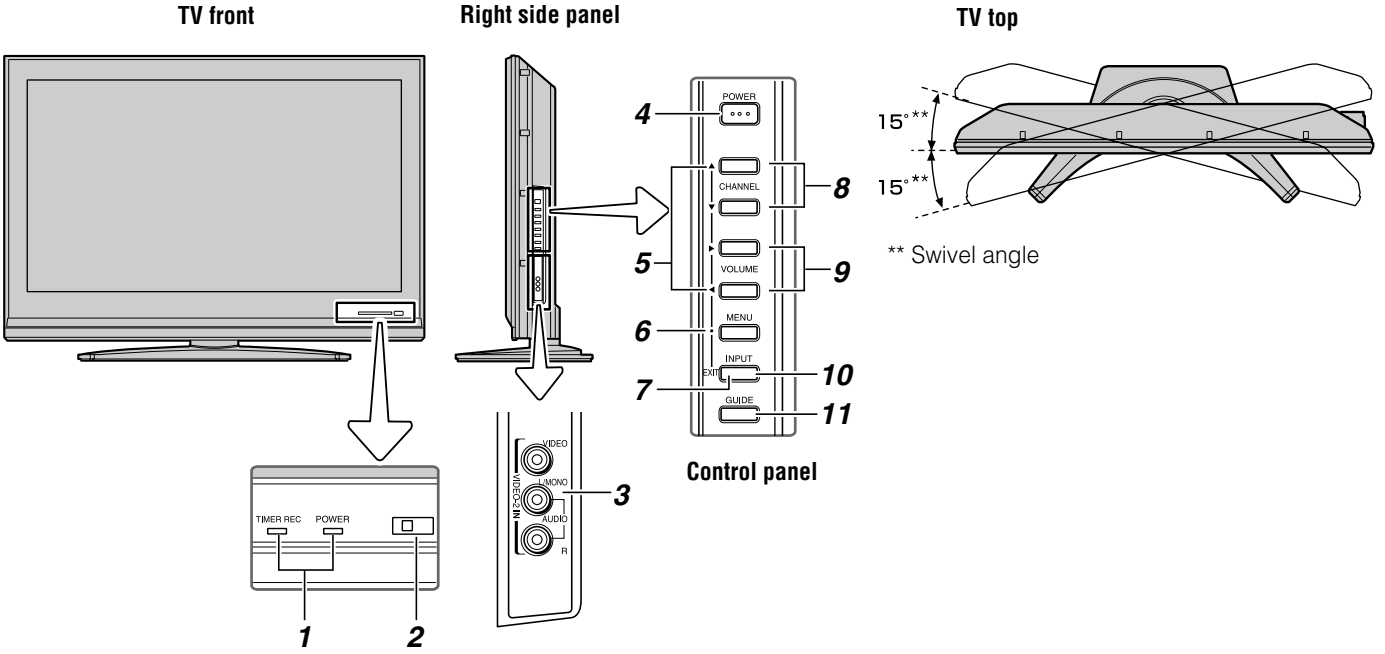
**16** For details on connecting the TV to a home network to enable file sharing, use personal e-mails, and e-mail scheduling of recordings, see Chapter 7.

**17** For help, refer to the Troubleshooting Guide, Chapter 8.

**18** For technical specifications and warranty information, see Chapter 9.

**19** Enjoy your new TV!

# TV front and side panel controls and connections




***1*** **Blue and Red LEDs**

See "LED indications" on page 86 for additional information.

***2*** **Remote sensor** — Point the remote control toward this remote sensor (☞ "Remote control effective range" on page 11).

***3*** **VIDEO-2 IN** — The side panel A/V connections are referred to as "**VIDEO 2**" and include standard A/V inputs.

***4*** **POWER** — Press to turn the TV on and off.

If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the **POWER** button on the TV control panel for 5 or more seconds to reset the TV.

***5*** **ARROWS ▲▼◀▶** — When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.

***6*** ***MENU (ENTER)** — Press to access the menu system (☞ pages 22–23). When a menu is on-screen, the **MENU** button on the TV's side control panel functions as the **ENTER** button.

***7*** **EXIT** — Press to instantly close an on-screen menu.

***8*** **CHANNEL ▼▲** — When no menu is on-screen, these buttons change the channel (programmed channels only; ☞ page 26). When a menu is on-screen, these buttons function as up/down menu navigation buttons.

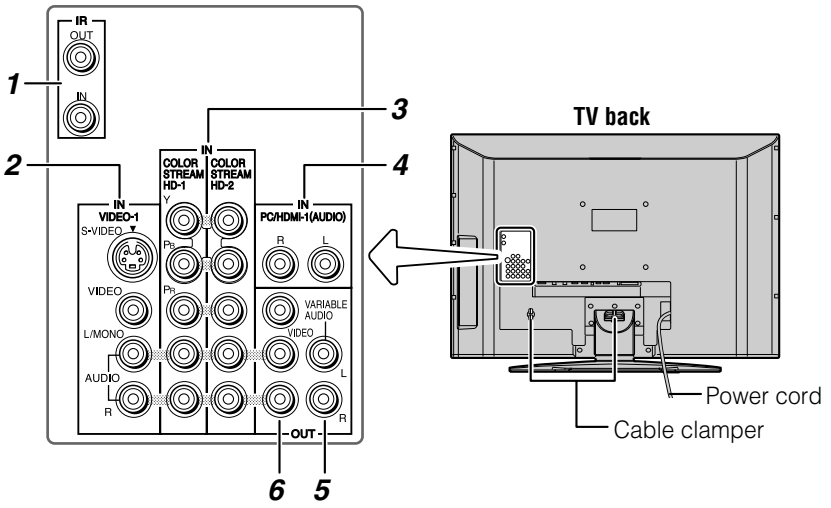
***9*** **VOLUME ◀▶** — When no menu is on-screen, these buttons adjust the volume level. When a menu is on-screen, these buttons function as left/right menu navigation buttons.

***10*** **INPUT** — Repeatedly press to change the source you are viewing (**ANT 1, VIDEO 1, VIDEO 2, ColorStream HD-1, ColorStream HD-2, HDMI 1, HDMI 2, PC, ANT 2**).

***11*** **GUIDE** — Press to access the TV Guide On Screen™ program guide (☞ *TV Guide On Screen™ Interactive Program Guide*).

# TV back panel connections

For an explanation of cable types and connections, see the *Installation Guide*.




***1*** **IR OUT** — For controlling infrared remote-controlled devices through the TV. You can connect up to two devices with an IR blaster cable, and then control the devices using the TV's IR pass-through features.

**IR IN** — For connecting to IR OUT on other devices (☞ *Installation Guide*).

***2*** **VIDEO 1 IN** — Composite video and analog audio inputs plus optional S-video inputs for connecting devices with composite video or S-video output.

***Note:*** *Composite video and S-video cables carry only video information; separate audio cables are required for a complete connection.*

***3*** **ColorStream® HD-1 IN** and **ColorStream® HD-2 IN** — Two sets of ColorStream® high-definition component video inputs (with analog stereo audio inputs) for connecting devices with component video output, such as a Toshiba DVD player with ColorStream®.

***Note:*** *Component video cables carry only video information; separate audio cables are required for a complete connection.*

***4*** **PC/HDMI-1 (AUDIO) IN** — These analog audio inputs are shared between PC IN (item 7 on next page) and HDMI (DVI) IN (item 9 on next page). Their use can be configured in the **Setup** menu (☞ page 52).

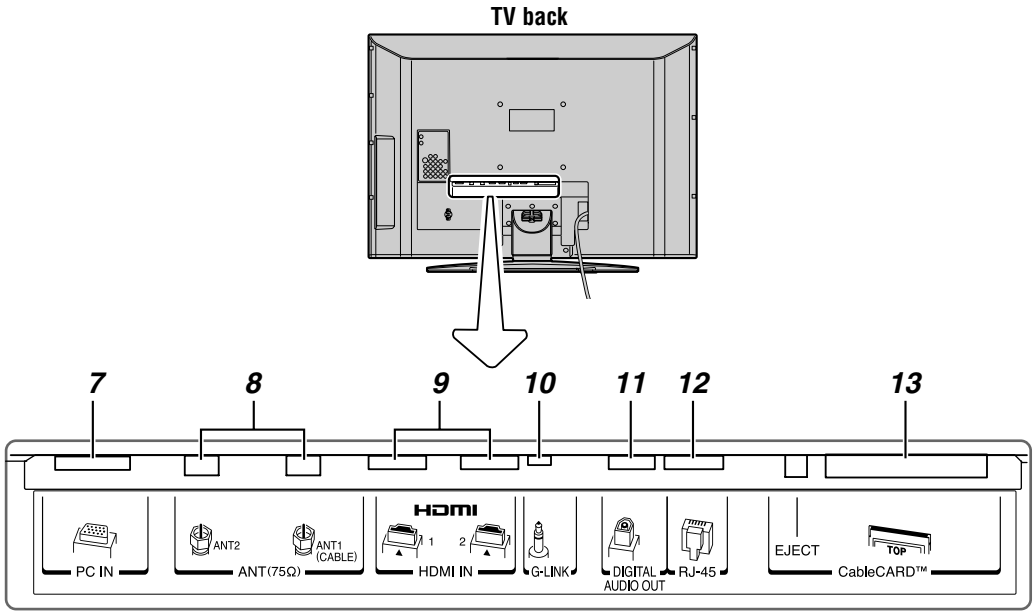
***5*** **Variable Audio OUT** — Standard analog audio outputs for connecting an analog amplifier with external speakers. When the POP double-window is open, the active window sound is output (☞ page 40).

***6*** **A/V OUT** — Standard composite video and analog audio outputs for connecting a VCR for editing and dubbing. When the POP double-window is open, the active window sound is output (☞ page 40).

***Note:*** *The A/V OUT terminals will output AUDIO ONLY (no video) in the following instances:*

- *When the TV's INPUT mode is HDMI, ColorStream, or PC (☞ "Selecting the video input source to view," page 31).*
- *When the MP3 Audio Player is active (☞ page 70).*

*(continued)*




***7*** **PC IN** — For connecting a personal computer.

***8*** **ANT 1** and **ANT 2** — Two inputs that support analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.

***Note:*** *If you have an antenna only, connect it to* ***ANT 1****. If you have both cable TV and an antenna, connect the cable TV to* ***ANT 1*** *and the antenna to* ***ANT 2****.*

***9*** **HDMI™ 1 IN** and **HDMI™ 2 IN** — Two High-Definition Multimedia Interface inputs receive digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see item 4.

***10*** **G-LINK™** — For use with the enclosed IR blaster/ G-LINK™ cable to enable the TV Guide On Screen™ recording features (☞ *Installation Guide*).

***11*** **Digital Audio OUT** — Optical audio output in Dolby* Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, A/V receiver, or home theater system with optical audio input.

***12*** **RJ-45 (Ethernet) (THINC™ system**)** — For connecting the TV to your home network. See boxed note below.

****THINC™ system**
**(Toshiba Home Interactive Network Connection)**

The RJ-45 (Ethernet) port allows your Toshiba TV to connect to your home network. You can use this revolutionary home entertainment networking system to access MP3 audio files and JPEG picture files that are stored as shared files on a networked PC and play/display them on your TV.

You also can play your shared MP3 audio files through a connected audio system.

Personal e-mail and E-mail scheduling of recording and reminders are also enabled with THINC system.

See Chapter 7 for details. Also see the *Installation Guide.*

***13*** **CableCARD™ slot** — For use with a digital security card and digital cable TV service (provided by your local cable operator) to view encrypted digital programming (☞ page 29).

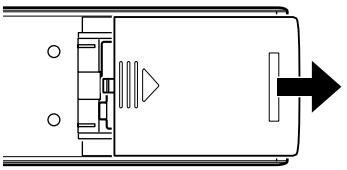
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. CableCARD is a trademark of Cable Television Laboratories, Inc.

* Manufactured under license from Dolby Laboratories. Dolby, Pro Logic, and the double-D symbol are registered trademarks of Dolby Laboratories.

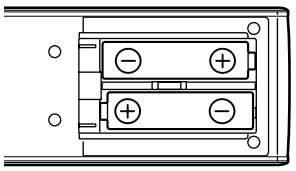
## Installing the remote control batteries

**To install the remote control batteries:**

**1** Slide the battery cover off the back of the remote control.



**2** Install two "AA" size alkaline batteries. Match the + and – symbols on the batteries to the symbols on the battery compartment.



**3** Slide the battery cover on to the remote control until the lock snaps.

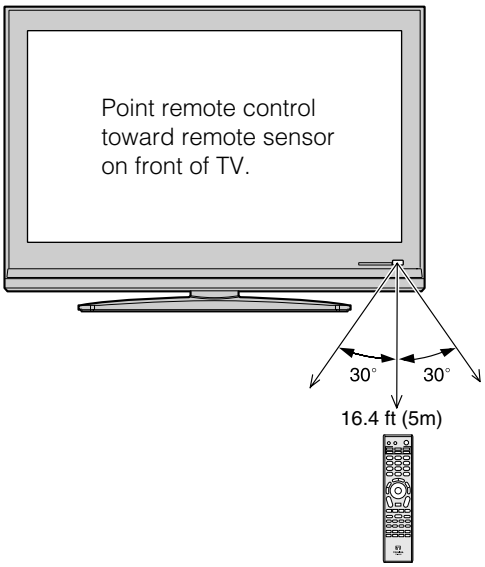
***Caution:*** *Never throw batteries into a fire.*

***Note:***

- *Be sure to use AA size alkaline batteries.*
- *Dispose of batteries in a designated disposal area.*
- *Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.*
- *If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.*
- *When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.*
- *Always remove the batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.*

## Remote control effective range

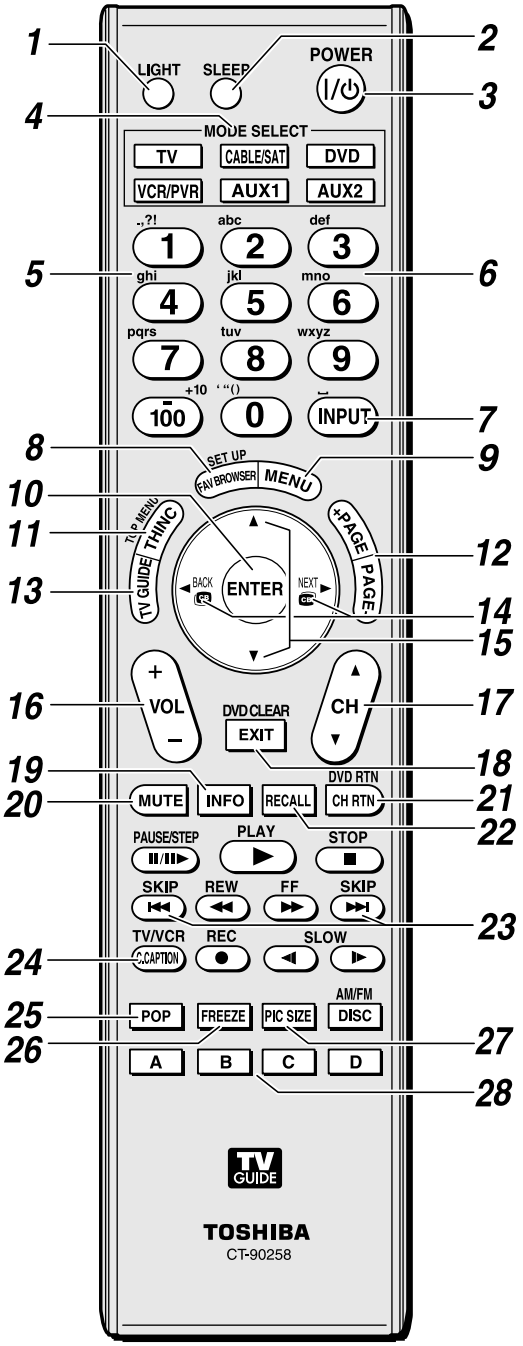
For optimum performance, aim the remote control directly at the TV remote sensor. Make sure there are no obstructions between the remote control and the TV.



# Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control's functions, see the remote control functional key chart (☞ pages 14–15).

For a list of the buttons that operate the TV Guide On Screen™ system, see the separate *TV Guide On Screen™ Interactive Program Guide*.




***Note:*** *The error message "Not Available" may appear if you press a key for a function that is not available.*

1 **LIGHT** illuminates the keypad for five seconds. The MODE SELECT key that is being selected blinks three times.

2 **SLEEP** accesses the sleep timer (☞ page 51).

3 **POWER** turns the TV on and off. When the TV is on, the blue LED indicator on the TV front will be illuminated.

4 **MODE SELECT** sets the six remote control device modes: **TV**, **CABLE/SAT**, **DVD**, **VCR/PVR**, **AUX 1**, and **AUX 2**. Press **TV** until the keypad blinks 3 times to control the TV.
The selected MODE key blinks each time any key is pressed. (☞ page 16).

5 **Software Keyboard (0-9, INPUT, 100/-/+10)** used for entering alpha-numeric data in conjunction with the THINC features (☞ page 67).

6 **Channel Numbers (0–9, –/100)** directly tune channels. The (100) button is used to tune digital channels (☞ page 34) or to edit the Favorite List (☞ page 32).

7 **INPUT** selects the video input source (☞ page 31).

8 **FAV BROWSER** accesses the Favorites List in the Channel Browser™ (☞ page 32).

9 **MENU** accesses the main TV menu system (☞ pages 22 and 23) or opens a menu in the TV Guide On Screen™ system (☞ *TV Guide On Screen™ Interactive Program Guide*).

10 **ENTER** activates highlighted items in the main menu system and the TV Guide On Screen™ system.

11 **THINC** accesses the THINC menu (☞ page 24).

12 **PAGE + -** When the TV Guide On Screen™ system is open, moves from one set of screen information to the next, when applicable. They are also used for scrolling with the personal e-mail feature.

13 **TV GUIDE** opens the TV Guide On Screen™ system (☞ *TV Guide On Screen™ Interactive Program Guide*).

14 BACK ◀ / NEXT ▶ While watching TV, these buttons open the Channel Browser™ and tune to the previous/next channel in the History List (☞ page 33). (Also see "Arrow buttons," below.)

15 **Arrow buttons (▲▼◀▶)** When a menu is on-screen, these buttons select or adjust programming menus. (Also see BACK ◀ / NEXT ▶.)

16 **VOL + -** adjusts the volume level.

17 **CH ▲▼** cycles through programmed channels when no menu is on-screen (☞ page 26), and functions as page up/down when a menu is on-screen or when the TV Guide On Screen™ system is open (☞ *TV Guide On Screen™ Interactive Program Guide*).

***18*** **EXIT** closes on-screen menus and the TV Guide On Screen™ system.

***19*** **INFO** provides detailed information on highlighted items in the TV Guide On Screen™ system (☞ *TV Guide On Screen™ Interactive Program Guide*).

***20*** **MUTE** reduces or turns off the sound (☞ page 43).

***21*** **CH RTN** returns to the last viewed channel (☞ page 35), or stops the Picture Viewer slide show (☞ page 69). Also can be used to switch between the song select view and file select view in the Audio Player (☞ page 70).

***22*** **RECALL** displays TV status information (☞ page 53).

***23*** **SKIP ⏮** and **SKIP ⏭** jump backward and forward one day at a time in the TV Guide On Screen™ listings (☞ *TV Guide On Screen™ Interactive Program Guide*). Also can be used for jumping to the beginning and the ending of lines when used with the software keyboard. (☞ page 67).

***24*** **C.CAPTION (TV/VCR)** opens the closed caption/audio selector screen. (The audio selector is not available for analog channels.) (☞ pages 42–43.) Also can be used to select the TV mode to view one program while recording another.

***25*** **POP** opens the POP double-window (☞ page 39) or locks/unlocks the TV Guide On Screen™ video window (☞ *TV Guide On Screen™ Interactive Program Guide*).

***26*** **FREEZE** freezes the picture. Press again to restore the moving picture.

***27*** **PIC SIZE** cycles through the pictures sizes: **Natural**, **TheaterWide 1/2/3**, **Full**, **4:3 HD**, and **Native** (☞ page 36).

***28*** A B C D are used with the Color Management Pro (☞ page 57) and THINC features (☞ page 73).

# Remote Control functional key chart

| REMOTE CONTROL KEY | Toshiba TV (TV) | CABLE | SAT (satellite) | VCR | • DVD/VCR combo • DVD/ DVD-R | Receiver/ AMP | CD (AUDIO) | PVR |
|---|---|---|---|---|---|---|---|---|
| MODE SELECT | Remote control device mode selection | | | | | | | |
| LIGHT | Lights the remote key.*1 | | | | | | | |
| SLEEP | Sleep timer | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV |
| POWER | Power | Power | Power | Power | Power | Power | Power | Power |
| 1 (. , ? !) | Digit 1*2 | Digit 1 | Digit 1 | Digit 1 | Digit 1 | AV input 1 | Digit 1 | Digit 1 |
| 2 (a b c) | Digit 2*2 | Digit 2 | Digit 2 | Digit 2 | Digit 2 | AV input 2 | Digit 2 | Digit 2 |
| 3 (d e f) | Digit 3*2 | Digit 3 | Digit 3 | Digit 3 | Digit 3 | AV input 3 | Digit 3 | Digit 3 |
| 4 (g h i) | Digit 4*2 | Digit 4 | Digit 4 | Digit 4 | Digit 4 | AV input 4 | Digit 4 | Digit 4 |
| 5 (j k l) | Digit 5*2 | Digit 5 | Digit 5 | Digit 5 | Digit 5 | CD | Digit 5 | Digit 5 |
| 6 (m n o) | Digit 6*2 | Digit 6 | Digit 6 | Digit 6 | Digit 6 | Tuner | Digit 6 | Digit 6 |
| 7 (p q r) | Digit 7*2 | Digit 7 | Digit 7 | Digit 7 | Digit 7 | Phono | Digit 7 | Digit 7 |
| 8 (t u v) | Digit 8*2 | Digit 8 | Digit 8 | Digit 8 | Digit 8 | Cassette | Digit 8 | Digit 8 |
| 9 (w x y z) | Digit 9*2 | Digit 9 | Digit 9 | Digit 9 | Digit 9 | Aux | Digit 9 | Digit 9 |
| 0 (‘ “ ( )) | Digit 0*2 | Digit 0 | Digit 0 | Digit 0 | Digit 0 | --- | Digit 0, 10 | Digit 0 |
| 100/–/+10 | – (digital separator)*2 | --- | –/--, +10, +100 | +100 | –/--, +10, +100 | --- | --- | --- |
| INPUT (⇨) | TV/Video select*2 | ← TV | ← TV | ← TV | ← TV | Input | ← TV | ← TV |
| PIC SIZE | Selects the image shape | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV |
| MENU | Menu/Guide Menu | Menu | Menu | --- | Menu | Menu | Menu | Menu |
| FAV BROWSER/ SET UP | FAV BROWSER | --- | --- | --- | Setup | --- | --- | --- |
| THINC/ TOP MENU | THINC | ← TV | ← TV | ← TV | Top menu | ← TV | ← TV | ← TV |
| TV GUIDE | TV Guide | Guide | Guide | --- | Guide | --- | --- | Guide |
| INFO | Guide Info | Info | Info | --- | Display | --- | --- | Info |
| ENTER | Enter | Select | Select | --- | Select | --- | --- | Select |
| ▲ | Menu select up | Cursor up | Cursor up | --- | Cursor up | --- | --- | Cursor up |
| ▼ | Menu select down | Cursor down | Cursor down | --- | Cursor down | --- | --- | Cursor down |
| ◀ BACK CH ▶ NEXT CH | Menu select left/right<br>BACK CH Back<br>NEXT CH Next | Cursor left/ right | Cursor left/ right | --- | Cursor left/ right | --- | --- | Cursor left/ right |
| EXIT/ DVD CLEAR | Exit | Exit | Exit | --- | DVD clear | --- | --- | Exit |
| PAGE +/– | Page up/ down | Page up/ down | Page up/ down | --- | Page up/ down | --- | --- | --- |
| VOL +/– | Volume up/ down*3 | Volume up/ down*3 | Volume up/ down*3 | Volume up/ down*3 | Volume up/ down*3 | Volume up/ down*3 | Volume up/down*3 | Volume up/down*3 |

| REMOTE CONTROL KEY | Toshiba TV (TV) | CABLE | SAT (satellite) | VCR | • DVD/VCR combo • DVD/ DVD-R | Receiver/ AMP | CD (AUDIO) | PVR |
|---|---|---|---|---|---|---|---|---|
| CH RTN/ DVD RTN | Previous channel | Previous channel | Previous channel | --- | DVD RTN | --- | --- | --- |
| RECALL | On-screen display | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV |
| MUTE | Sound mute | Sound mute*3 | Sound mute*3 | Sound mute*3 | Sound mute*3 | Sound mute*3 | Sound mute*3 | Sound mute*3 |
| SLOW | Slow FWD* Slow REW* | --- | --- | Slow FWD Slow REW | Slow FWD Slow REW | --- | --- | Slow FWD Slow REW |
| SKIP ⏭ SKIP ⏮ | DAY+*2 DAY–*2 | --- | --- | --- | Skip FWD Skip REW | --- | Skip FWD Skip REW | --- |
| REW | Rewind* | Rewind | Rewind | Rewind | Rewind | --- | Rewind | Rewind |
| PAUSE/STEP | Pause* | Pause | Pause | Pause | Pause | --- | Pause | Pause |
| PLAY | Play* | Play | Play | Play | Play | --- | Play | Play |
| FF | Fast FWD* | Fast FWD | Fast FWD | Fast FWD | Fast FWD | --- | Fast FWD | Fast FWD |
| C.CAPTION TV/VCR | C.Caption | --- | TV/SAT | TV/VCR | ---*4 | --- | --- | --- |
| DISC/AM/FM | --- | --- | --- | --- | ---*5 | AM/FM | Disc SKIP Disc select | Instant replay |
| STOP | Stop* | Stop | Stop | Stop | Stop | --- | Stop | Stop |
| REC | REC Menu (Single click) | Record (Double click) | Record (Double click) | Record (Double click) | Record (Double click)*6 | --- | --- | Record (Double click) |
| CH ▲▼ | Channel up/ down | Channel up/ down | Channel up/ down | Channel up/down | Channel up/down | Channel up/down | --- | Channel up/down |
| POP | Split | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV |
| FREEZE | Freeze | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV | ← TV |
| A - D | A - D | --- | --- | --- | --- | --- | --- | --- |

***Note:***

- *"---" = key does not send a signal in that remote control mode.*
- *"← TV" = key will affect the TV, even though the remote control is in another mode.*
- ** Not available for your TV.*

*1 Does not send IR signal.

*2 Performs a function when in the Software Keyboard mode.

*3 Volume will affect the TV by default. When the volume is unlocked, all the devices will have their own volume if their ID has volume data. The **AUDIO** modes (receiver, CD) will have their own volume if volume lock is set on **TV, CABLE/SAT, VCR/PVR**, or **DVD** mode. See "Using the volume lock feature" (☞ page 17).

*4 DVD/VCR combo : TV/VCR

*5 DVD/VCR combo : DVD/VCR

*6 DVD/DVD-R : RECORD is only for DVD-R, no function is picked for DVD.

# Using the remote control to operate your other devices

Your TV remote control has one dedicated TV mode and five programmable multi-brand modes: **CABLE/SAT**, **DVD**, **VCR/PVR**, **AUX 1**, and **AUX 2**. The default device modes and programmable device modes are listed below.

***Note:*** *The TV remote control is preprogrammed to operate most Toshiba devices. To operate a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you will need to program the remote control. See "Programming the remote control to operate your other devices" (at right).*

| MODE SELECT | Default device mode control (before programming) |
|---|---|
| TV | Toshiba TV |
| CABLE/SAT | Toshiba DST 3100 Satellite receiver |
| DVD | Orion DVD |
| VCR/PVR | Toshiba VCR |
| AUX 1 | Yamaha Audio receiver |
| AUX 2 | Onkyo Audio receiver |

| MODE SELECT | Device mode control after programming |
|---|---|
| TV | Toshiba TV |
| CABLE/SAT | Multi-brand video/audio devices |
| DVD | |
| VCR/PVR | |
| AUX 1 | |
| AUX 2 | |

***Note:*** *Although your new TV's remote control includes codes for many devices, it may not include codes for some or all of the features on certain devices you wish to control. If you are unable to program the TV's remote control to operate your device or some of the features on that device, use the device's original remote control (or the control buttons on the device).*

# Programming the remote control to operate your other devices

## Device code setup

**1** Find the code for your device brand in the remote control device code table on pages 18–21.

If more than one code is listed, try each one separately until you find one that works.

**2** Press the applicable MODE SELECT button (**CABLE/SAT, DVD, VCR/PVR, AUX 1,** or **AUX 2**), until the MODE SELECT button blinks 3 times.

**3** While holding down RECALL, press the Number buttons to enter the category code (0, 1, 2, 3, 4, or 5, as described below) plus the four-digit device code for your device.

| Category | Category code |
|---|---|
| TVs (Toshiba) | 0 |
| Cable boxes<br>Satellite receivers<br>Cable/PVR combos<br>DBS/PVR combos (1) | 1 |
| DVD players | 2 |
| VCRs<br>PVRs<br>DBS/PVR combos (2) | 3 |
| Audio Amps<br>Audio Amps/Tuners | 4 |
| CD players | 5 |

- If a valid code is entered, the MODE SELECT button will blink twice.
- If an invalid code is entered, the MODE SELECT button will blink one long blink.

**4** Point the remote control at the device and press POWER to test the code.

- If the device responds to the remote control, you have entered the correct code.
- If the device does not respond to the remote control, repeat steps 3 and 4 using another code.

***Note:*** *After programming the remote control, make sure all necessary keys on the TV remote control (in addition to POWER) operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device's original remote control.*

**5** To control the TV, press the TV MODE SELECT button.

***Note:***

- *Although the TV remote control includes codes for many devices, it may not include codes for some or all of the features on certain devices you want to control. If you are unable to program the TV remote control to operate your device or some of the features on that device, use the device's original remote control (or the control buttons on the device).*
- *Every time you change the batteries you will need to reprogram the remote control.*
- *Some newer VCRs respond to either of two codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position ("VCR1" or "VCR2") and reprogram the remote control.*

## Searching and sampling the code of a device (8500)

If you do not know the device code for a particular device, you can cycle the remote control through the available codes for that device mode and sample the functions to find the code that operates the target device. The keys available to be sampled, provided they are applicable to that mode, are POWER, 1, VOL+, CH▲, and PLAY. Invalid keys will be ignored while in program mode.

### To cycle through each available device code and sample its functions:

**1** Press the appropriate MODE SELECT button on the remote control.

**2** While holding down RECALL, press 8, 5, 0, 0. The remote control will enter program mode.

**3** Point the remote control at the target device and press POWER (or other function buttons that are available to be sampled).

**4** If the device responds to the remote control:

Press RECALL to store the device code. The MODE SELECT button will blink two times and the remote control will exit the program mode.

If the device does not respond to the remote control:

Press ▲, and then press POWER. Repeat this step until the device responds to the remote control, and then press RECALL.

***Note:*** *When a search cycle is completed, the MODE SELECT button will blink three times. The remote control will begin to cycle through the available codes again. If no key is pressed within 10 seconds during programming, the remote control will exit the program mode and return to the previous code.*

## Using the volume lock feature (8000)

By default (factory setting), the remote control's volume keys (VOL+ VOL− and MUTE) are locked to the "TV" device mode.

The remote control will operate the TV's volume, even when "TV" is not the current device mode. (This includes all remote control device modes except AUX 1 and AUX 2).

If you unlock the remote control's volume keys, each device mode will have its own volume (if the device ID has volume data). The remote control will operate the volume of the device associated with the current device mode. (This includes all remote control device modes.)

If you lock the remote control's volume keys to a specific device mode, the remote control will operate the volume of the device associated with the locked mode, even when the locked mode is not the current device mode. (This includes all device modes except AUX 1 and AUX 2).

When the remote control is in AUX 1 (or AUX 2) mode, the remote control will operate the volume of the device associated with the AUX 1 (or AUX 2) mode, even when the volume is locked to another mode.

See "Using the remote control to operate your other devices" on page 16.

### To lock the remote control's volume keys to a specific mode (CABLE/SAT in this example):

**1** Press CABLE/SAT.

**2** While holding down the RECALL button, press 8, 0, 0, 0.

**3** Press VOL+. The CABLE/SAT MODE SELECT button will blink two times (locked).

The remote control's volume keys will now operate the volume of the device associated with the CABLE/SAT mode, even when CABLE/SAT is not the current device mode. (for all device modes except AUX 1 and AUX 2).

### To unlock the remote control's volume keys:

**1** While holding down RECALL, press 8, 0, 0, 0.

**2** Press VOL−. The CABLE/SAT MODE SELECT button will blink four times (unlocked).

## Operational feature reset (8900)

This feature clears all programmed remote control features not related to "Device code setup" and resets the volume lock to the "TV" device mode.

### To reset the remote control:

While holding down RECALL, press 8, 9, 0, 0. The MODE SELECT button will blink four times.

# Multi-brand remote control device codes

## TVs

| Brand | Code |
|---|---|
| Toshiba | 1524 |

## Cable boxes

| Brand | Code |
|---|---|
| ABC | 0003, 0008 |
| Americast | 0899 |
| Bell South | 0899 |
| Clearmaster | 0883 |
| ClearMax | 0883 |
| Coolmax | 0883 |
| Digeo | 1187 |
| Director | 0476 |
| GoldStar | 0144 |
| Hamlin | 0009, 0273 |
| Memorex | 0000 |
| Motorola/ General Instrument/ Jerrold | 0276, 0476, 0810 |
| Motorola | 1187, 1376 |
| General Instrument/ Jerrold | 0003 |
| Multitech | 0883 |
| Pace | 0008, 0237, 1877 |
| Panasonic | 0000, 0107 |
| Paragon | 0000 |
| Philips | 0317, 1305 |
| Pioneer | 0144, 0533, 0877, 1877 |
| Pulsar | 0000 |
| Quasar | 0000 |
| RadioShack | 0883 |
| Regal | 0273, 0279 |
| Runco | 0000 |
| Samsung | 0144 |
| Scientific Atlanta | 0008, 0477, 0877, 1877 |
| Sony | 1006 |
| Starcom | 0003 |
| Supercable | 0276 |
| Supermax | 0883 |
| Torx | 0003 |
| Toshiba | 0000 |
| Tristar | 0883 |
| V2 | 0883 |
| Viewmaster | 0883 |
| Vision | 0883 |
| Vortex View | 0883 |
| Zenith | 0000, 0525, 0899 |

## Satellite receivers

| Brand | Code |
|---|---|
| AlphaStar | 0772 |
| Chaparral | 0216 |
| Crossdigital | 1109 |
| DirecTV | 0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142, 1377, 1392, 1414, 1442, 1443, 1444, 1609, 1639, 1640, 1749, 1856 |
| Dish Network System | 0775, 1005, 1170, 1505, 1775 |
| Dishpro | 0775, 1005, 1505, 1775 |
| Echostar | 0775, 1005, 1170, 1505, 1775 |
| Expressvu | 0775, 1775 |
| GE | 0392, 0566 |
| GOI | 0775, 1775 |
| Goodmans | 1246 |
| Hisense | 1535 |
| Hitachi | 0819, 1250 |
| HTS | 0775, 1775 |
| Hughes | 0749, 1442, 1749 |
| Hughes Network Systems | 0749, 1142, 1442, 1443, 1444, 1749 |
| iLo | 1535 |
| Janeil | 0152 |
| JVC | 0775, 1170, 1775 |
| LG | 1226, 1414 |
| Magnavox | 0722, 0724 |
| Memorex | 0724 |
| Mitsubishi | 0749 |
| Motorola/General Instrument/Jerrold | 0869 |
| Motorola | 0856 |
| NEC | 0102, 0178, 1270 |
| Next Level | 0869 |
| Panasonic | 0152, 0247, 0701 |
| Paysat | 0724 |
| Philips | 0099, 0722, 0724, 0749, 0819, 1076, 1142, 1442, 1749 |
| Pioneer | 1442 |
| Proscan | 0392, 0566 |
| Proton | 1535 |
| RadioShack | 0869 |
| RCA | 0143, 0392, 0566, 0855, 1392 |
| Samsung | 1108, 1109, 1142, 1276, 1377, 1442, 1609 |
| Sanyo | 1219 |
| Sony | 0639, 1639, 1640 |
| Star Choice | 0869 |
| Tivo | 1142, 1442, 1443, 1444 |
| Toshiba | 0082, 0749, 0790, 0819, 1285, 1286, 1287, 1289, 1749, 1857, 1858 |
| UltimateTV | 1392, 1640 |
| Uniden | 0722, 0724 |
| US Digital | 1535 |
| USDTV | 1535 |
| Voom | 0869 |
| Zenith | 1856 |

## DVD players

| Brand | Code |
|---|---|
| Aiwa | 0641 |
| Akai | 0695, 0770, 1089 |
| Alco | 0790 |
| Allegro | 0869 |
| Amphion Media Works | 0872 |
| AMW | 0872 |
| Apex Digital | 0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100 |
| Aspire Digital | 1168, 1407 |
| Audiovox | 0790, 1041, 1072 |
| Axion | 1072 |
| B & K | 0655, 0662 |
| Blaupunkt | 0717 |
| Blue Parade | 0571 |
| Broksonic | 0695 |
| California Audio Labs | 0490 |
| Cinea | 0831 |
| CineVision | 0833, 0869, 0876 |
| Citizen | 1277 |
| Coby | 0778, 0852, 1086, 1107, 1177, 1351 |
| Craig | 0831 |
| Curtis Mathes | 1087 |
| CyberHome | 0816, 0874, 1023, 1024, 1117, 1129 |
| Daewoo | 0705, 0784, 0833, 0869, 1169, 1172, 1234, 1242 |
| Daytek | 0872 |
| Denon | 0490, 0634 |
| Desay | 1407 |
| Disney | 0675, 1270 |
| Dual | 1068, 1085 |
| Durabrand | 1127 |
| DVD2000 | 0521 |
| Emerson | 0591, 0675, 0821 |
| Enterprise | 0591 |
| Fisher | 0670 |
| Funai | 0675, 1334 |
| Gateway | 1073, 1077, 1158 |
| GE | 0522, 0717, 0815 |
| Go Video | 0715, 0741, 0744, 0783, 0833, 0869, 1044, 1075, 1099, 1158, 1304, 1730 |
| GoVision | 1072 |
| GoldStar | 0741 |
| GPX | 0699, 0769 |
| Gradiente | 0490 |
| Greenhill | 0717 |
| Grundig | 0539 |
| Harman/Kardon | 0582, 0702 |
| Hitachi | 0573, 0664 |
| Hiteker | 0672 |
| iLo | 1348 |
| Initial | 0717 |
| Integra | 0571, 0627 |
| Jaton | 1078 |

| | |
|---|---|
| JBL | 0702 |
| JSI | 1423 |
| JVC | 0558, 0623, 0867, 1164 |
| jWin | 1049, 1051 |
| Kawasaki | 0790 |
| Kenwood | 0490, 0534 |
| KLH | 0717, 0790, 1020, 1149 |
| Konka | 0711 |
| Koss | 0651, 1423 |
| Landel | 0826 |
| Lasonic | 0798, 1173 |
| Lecson | 1533 |
| Lenoxx | 1127 |
| LG | 0591, 0741, 0801, 0869 |
| LiteOn | 1058, 1158, 1416, 1440 |
| Loewe | 0511 |
| Magnavox | 0503, 0539, 0646, 0675, 0821 |
| Malata | 0782, 1159 |
| Marantz | 0539 |
| McIntosh | 1533 |
| Memorex | 0695, 0831, 1270 |
| Microsoft | 0522 |
| Mintek | 0717, 0839 |
| Mitsubishi | 0521, 1521 |
| Momitsu | 1082 |
| NAD | 0591, 0692, 0741 |
| NEC | 0785 |
| Nesa | 0717 |
| Next Base | 0826 |
| NexxTech | 1402 |
| Norcent | 0872, 1003, 1107, 1265 |
| Onkyo | 0503, 0627, 0792 |
| Oritron | 0651 |
| Panasonic | 0490, 0503, 0703, 1362, 1462, 1490, 1762 |
| Philips | 0503, 0539, 0646, 0675, 1267, 1354 |
| PianoDisc | 1024 |
| Pioneer | 0525, 0571, 0631 |
| Polaroid | 1020, 1061, 1086 |
| Polk Audio | 0539 |
| Portland | 0770 |
| Presidian | 0675 |
| Proceed | 0672 |
| Proscan | 0522 |
| ProVision | 0778 |
| Qwestar | 0651 |
| RCA | 0522, 0571, 0717, 0790, 0822 |
| Rio | 0869 |
| RJTech | 1360 |
| Rotel | 0623 |
| Rowa | 0823 |
| Sampo | 0698, 0752 |
| Samsung | 0490, 0573, 0744, 0820, 1044, 1075 |
| Sansui | 0695 |
| Sanyo | 0670, 0695, 0873 |
| Sensory Science | 1158 |
| Sharp | 0630, 0675, 0752, 1256 |
| Sharper Image | 1117 |
| Sherwood | 0633, 0770, 1043, 1077 |
| Shinsonic | 0533, 0839 |
| Sonic Blue | 0869, 1099 |
| Sony | 0533, 0864, 1033, 1431, 1533 |
| Sungale | 1074 |
| Superscan | 0821 |
| SVA | 0860, 1105 |
| Sylvania | 0675, 0821 |
| Symphonic | 0675 |
| Teac | 0790, 0809 |
| Technics | 0490, 0703 |
| Technosonic | 0730 |
| Techwood | 0692 |
| Theta Digita | 0571 |
| Toshiba | 0503, 0695, 1154, 1854 |
| Tredex | 0800, 0803, 0804 |
| Urban Concepts | 0503 |
| US Logic | 0839 |
| Venturer | 0790 |
| Vizio | 1064, 1226 |
| Xbox | 0522 |
| Yamaha | 0490, 0539, 0545 |
| Yamakawa | 0872 |
| Zenith | 0503, 0591, 0741, 0869 |
| Zoece | 1265 |

## VCRs

| Brand | Code |
|---|---|
| ABS | 1972 |
| Admiral | 0048, 0209, 0479 |
| Adventura | 0000 |
| Aiko | 0278 |
| Aiwa | 0000, 0037, 0124 |
| Akai | 0041, 0061, 0175 |
| Alienware | 1972 |
| America Action | 0278 |
| American High | 0035 |
| Asha | 0240 |
| Audiovox | 0037, 0278 |
| Beaumark | 0240 |
| Bell & Howell | 0104 |
| Broksonic | 0002, 0121, 0184, 0209, 0479 |
| Calix | 0037 |
| Canon | 0035 |
| Carver | 0081 |
| CCE | 0072, 0278 |
| Citizen | 0037, 0278 |
| Colt | 0072 |
| Craig | 0037, 0047, 0072, 0240 |
| Curtis Mathes | 0035, 0041, 0060, 0162 |
| Cybernex | 0240 |
| CyberPower | 1972 |
| Daewoo | 0045, 0278 |
| Dell | 1972 |
| Denon | 0042 |
| DirecTV | 0739 |
| Durabrand | 0038, 0039 |
| Dynatech | 0000 |
| Electrohome | 0037, 0043 |
| Electrophonic | 0037 |
| Emerex | 0032 |
| Emerson | 0000, 0002, 0037, 0043, 0061, 0121, 0184, 0209, 0212, 0278, 0479, 0593, 1593 |
| Fisher | 0047, 0104 |
| Fuji | 0033, 0035 |
| Funai | 0000, 0593, 1593 |
| Garrard | 0000 |
| Gateway | 1972 |
| GE | 0035, 0060, 0065, 0240, 0807 |
| Go Video | 0240, 0432, 0526 |
| GoldStar | 0037, 0038 |
| Gradiente | 0000 |
| Harley Davidson | 0000 |
| Harman/Kardon | 0038, 0075, 0081 |
| Harwood | 0072 |
| Headquarter | 0046 |
| Hewlett Packard | 1972 |
| HI-Q | 0047 |
| Hitachi | 0000, 0041, 0042, 0065, 0089, 0105 |
| Howard Computers | 1972 |
| HP | 1972 |
| Hughes Network Systems | 0042, 0739 |
| Humax | 0739 |
| Hush | 1972 |
| iBUYPOWER | 1972 |
| Jensen | 0041 |
| JVC | 0008, 0041, 0067 |
| KEC | 0037, 0278 |
| Kenwood | 0038, 0041, 0067 |
| KLH | 0072 |
| Kodak | 0035, 0037 |
| Linksys | 1972 |
| Lloyd's | 0000 |
| Logik | 0072 |
| LXI | 0037 |
| Magnasonic | 0593 |
| Magnavox | 0000, 0035, 0039, 0081, 0149, 0563, 0593 |
| Magnin | 0240 |
| Marantz | 0035, 0081 |
| Marta | 0037 |
| Matsushita | 0035, 0162 |
| Media Center PC | 1972 |
| MEI | 0035 |
| Memorex | 0000, 0035, 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0479 |
| MGA | 0043, 0061, 0240 |
| MGN Technology | 0240 |
| Microsoft | 1972 |
| Mind | 1972 |
| Minolta | 0042, 0105 |

*(continued)*

| | |
|---|---|
| Mitsubishi | 0043, 0061, 0067, 0075, 0173, 0807 |
| Motorola | 0035, 0048 |
| MTC | 0000, 0240 |
| Multitech | 0000, 0072 |
| NEC | 0038, 0040, 0041, 0067, 0104 |
| Nikko | 0037 |
| Nikon | 0034 |
| Niveus Media | 1972 |
| Noblex | 0240 |
| Northgate | 1972 |
| Olympus | 0035, 0226 |
| Onkyo | 0222 |
| Optimus | 0037, 0048, 0104, 0162, 0432, 0593, 1062 |
| Orion | 0002, 0184, 0209, 0479 |
| Panasonic | 0035, 0077, 0162, 0225, 0226, 0616, 1062 |
| Penney | 0035, 0037, 0038, 0040, 0042, 0240 |
| Pentax | 0042, 0065, 0105 |
| Philco | 0035 |
| Philips | 0035, 0081, 0618, 0739, 1081, 1181 |
| Pilot | 0037 |
| Pioneer | 0067 |
| Polk Audio | 0081 |
| Profitronic | 0240 |
| Proscan | 0060 |
| Protec | 0072 |
| Pulsar | 0039 |
| Quarter | 0046 |
| Quartz | 0046 |
| Quasar | 0035, 0077, 0162 |
| RadioShack | 0000 |
| Radix | 0037 |
| Randex | 0037 |
| RCA | 0042, 0060, 0065, 0077, 0105, 0149, 0240, 0807, 0880 |
| Realistic | 0000, 0035, 0037, 0046, 0047, 0048, 0104 |
| ReplayTV | 0614, 0616 |
| Ricavision | 1972 |
| Ricoh | 0034 |
| Runco | 0039 |
| Salora | 0075 |
| Samsung | 0045, 0240, 0739 |
| Sanky | 0039, 0048 |
| Sansui | 0000, 0041, 0067, 0209, 0479 |
| Sanyo | 0046, 0047, 0104, 0159, 0240 |
| Scott | 0043, 0045, 0121, 0184, 0210, 0212 |
| Sears | 0000, 0035, 0037, 0042, 0046, 0047, 0104, 0105 |
| Sharp | 0048, 0807, 0848 |
| Shintom | 0072 |
| Shogun | 0240 |
| Singer | 0072 |
| Sonic Blue | 0614, 0616 |
| Sony | 0000, 0032, 0033, 0034, 0035, 0636, 1032, 1972 |
| Stack 9 | 1972 |
| STS | 0042 |
| Sylvania | 0000, 0035, 0043, 0081, 0593, 1593 |
| Symphonic | 0000, 0593, 1593 |
| Systemax | 1972 |
| Tagar Systems | 1972 |
| Tatung | 0041 |
| Teac | 0000, 0041 |
| Technics | 0035, 0162 |
| Teknika | 0000, 0035, 0037 |
| Thomas | 0000 |
| Tivo | 0618, 0636, 0739, 1996 |
| TMK | 0240 |
| Toshiba | 0043, 0045, 0209, 0210, 0212, 0366, 0845, 1008, 1145, 1972, 1996 |
| Totevision | 0037, 0240 |
| Touch | 1972 |
| Unitech | 0240 |
| Vector | 0045 |
| Vector Research | 0038, 0040 |
| Video Concepts | 0040, 0045, 0061 |
| Videomagic | 0037 |
| Videosonic | 0240 |
| Viewsonic | 1972 |
| Villain | 0000 |
| Voodoo | 1972 |
| Wards | 0000, 0035, 0042, 0047, 0048, 0060, 0072, 0081, 0149, 0212, 0240 |
| White Westinghouse | 0072, 0209 |
| XR-1000 | 0000, 0035, 0072 |
| Yamaha | 0038 |
| Zenith | 0000, 0033, 0034, 0039, 0209, 0479, 1139 |
| ZT Group | 1972 |

## PVRs

| Brand | Code |
|---|---|
| ABS | 1972 |
| Alienware | 1972 |
| CyberPower | 1972 |
| Dell | 1972 |
| Direc TV | 0739 |
| Gateway | 1972 |
| Hewlett Packard | 1972 |
| Howard Computers | 1972 |
| HP | 1972 |
| Hughes Network Systems | 0739 |
| Humax | 0739 |
| Hush | 1972 |
| iBUYPOWER | 1972 |
| Linksys | 1972 |
| Media Center PC | 1972 |
| Microsoft | 1972 |
| Mind | 1972 |
| Niveus Media | 1972 |
| Northgate | 1972 |
| Panasonic | 0616 |
| Philips | 0618, 0739 |
| RCA | 0880 |
| ReplayTV | 0614, 0616 |
| Sonic Blue | 0614, 0616 |
| Sony | 0636, 1972 |
| Stack 9 | 1972 |
| Systemax | 1972 |
| Tagar Systems | 1972 |
| Tivo | 0618, 0636, 0739 |
| Toshiba | 1008, 1972 |
| Touch | 1972 |
| Viewsonic | 1972 |
| Voodoo | 1972 |
| ZT Group | 1972 |

## Cable/PVR combos

| Brand | Code |
|---|---|
| Americast | 0899 |
| Digeo | 1187 |
| Motorola/ General Instrument/ Jerrold | 0476, 0810 |
| Motorola | 1187, 1376 |
| Pace | 0237, 1877 |
| Pioneer | 0877, 1877 |
| Scientific Atlanta | 0877, 1877 |
| Sony | 1006 |
| Supercable | 0276 |
| Zenith | 0899 |

## DBS/PVR combos (1)

| Brand | Code |
|---|---|
| DirecTV | 0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640 |
| Dish Network System | 0775, 1505 |
| Dishpro | 0775, 1505 |
| Echostar | 0775, 1170, 1505 |
| Expressvu | 0775 |
| Hughes Network Systems | 1142, 1442, 1443, 1444 |
| JVC | 1170 |
| Motorola | 0869 |
| Philips | 1142, 1442 |
| Proscan | 0392 |
| RCA | 1392 |
| Samsung | 1442 |
| Sony | 0639, 1640 |
| Star Choice | 0869 |

## DBS/PVR combos (2)

| Brand | Code |
|---|---|
| Hughes Network Systems | 0739 |
| Philips | 0739 |
| Samsung | 0739 |

## Audio Amps

| Brand | Code |
|---|---|
| Adcom | 0577, 1100 |
| Bose | 0674 |
| Carver | 0892 |
| Durabrand | 1561 |
| Elan | 0647 |
| GE | 0078 |
| Harman/Kardon | 0892 |
| JVC | 0331 |
| LeftCoast | 0892 |
| Lenoxx | 1561 |
| Luxman | 0165 |
| Marantz | 0321, 0892 |
| McIntosh | 0251 |
| Nakamichi | 0321 |
| NEC | 0264 |
| Optimus | 0395, 0823 |
| Parasound | 0246 |
| Philips | 0892 |
| Pioneer | 0823 |
| PolkAudio | 0892 |
| RCA | 0823 |
| Realistic | 0395 |
| Sansui | 0321 |
| Shure | 0264 |
| Sony | 0689, 0815, 1126 |
| Soundesign | 0078, 0211 |
| Victor | 0331 |
| Wards | 0078, 0211 |
| Yamaha | 0133, 0143, 0354, 0504 |

## CD players

| Brand | Code |
|---|---|
| Adcom | 0234 |
| Aiwa | 0124, 0157 |
| Akai | 0156 |
| Arcam | 0157 |
| Audio-Technica | 0170 |
| Burmester | 0420 |
| California Audio Labs | 0029, 0303 |
| Carver | 0157, 0299 |
| Denon | 0003, 0034 |
| DKK | 0000 |
| DMX Electronics | 0157 |
| Garrard | 0393, 0420 |
| Genexxa | 0032 |
| Harman/Kardon | 0083, 0157, 0173 |
| Hitachi | 0032, 0139 |
| Integra | 0101 |
| JVC | 0072, 0655, 1294 |
| Kenwood | 0028, 0037, 0190, 0626 |
| Krell | 0157 |
| Linn | 0157 |
| Magnavox | 0038, 0157 |
| Marantz | 0029, 0038, 0157, 0180, 0435, 0626 |
| MCS | 0029 |
| MGA | 0083 |
| Miro | 0000 |
| Mission | 0157 |
| Mitsubishi | 0083 |
| MTC | 0420 |
| NAD | 0019, 0299 |
| NEC | 0234 |
| Nikko | 0170 |
| NSM | 0157 |
| Onkyo | 0101, 0102, 0138, 0381, 1327 |
| Optimus | 0000, 0032, 0037, 0087, 0420, 0468 |
| Panasonic | 0029, 0303, 0388, 0752 |
| Parasound | 0420 |
| Philips | 0157, 0274, 0626 |
| Pioneer | 0032, 0468, 0551, 1062, 1087 |
| Polk Audio | 0157 |
| Proceed | 0420 |
| Proton | 0157 |
| QED | 0157 |
| Quad | 0157 |
| Quasar | 0029 |
| RCA | 0032, 0053, 0420, 0468, 1062 |
| Realistic | 0180, 0420 |
| Rotel | 0157, 0420 |
| SAE | 0157 |
| Sansui | 0157 |
| Sanyo | 0087 |
| Sharp | 0037, 0180 |
| Sherwood | 0180 |
| Sonic Frontiers | 0157 |
| Sony | 0000, 0100, 0185, 0490, 0604, 0605, 0673, 1364 |
| Sugden | 0157 |
| TAG McLaren | 0157 |
| Tascam | 0420 |
| Teac | 0180, 0378, 0393, 0420 |
| Technics | 0029, 0303 |
| Toshiba | 0019, 0299 |
| Victor | 0072 |
| Wards | 0053, 0157 |
| Yamaha | 0036, 0170, 0187, 0490, 1292 |

## Audio Amps/Tuners

| Brand | Code |
|---|---|
| ADC | 0531 |
| Aiwa | 0121, 0189, 1243, 1388, 1405, 1641 |
| Akai | 1255, 1512 |
| Alco | 1390 |
| AMC | 1077 |
| Anam | 1074, 1609 |
| Apex Digital | 1774 |
| Arcam | 1189 |
| Audiotronic | 1189 |
| Audiovox | 1390 |
| Bose | 0639, 1229, 1253, 1933 |
| Capetronic | 0531 |
| Carver | 0121, 0189, 1189, 1289 |
| Delphi | 1414 |
| Denon | 0121, 1142, 1360 |
| Fisher | 1801 |
| Harman/Kardon | 0110, 0189, 0891, 1289, 1304, 1306 |
| Hitachi | 1273, 1801 |
| Integra | 0135, 1298, 1320 |
| JBL | 0110, 1306 |
| JVC | 1058, 1374, 1495, 1811 |
| Kenwood | 0186, 1313, 1569, 1570 |
| KLH | 1390, 1428 |
| Linn | 0189 |
| Magnavox | 0189, 0531, 1189, 1269, 1514 |
| Marantz | 0189, 1189, 1269, 1289 |
| McIntosh | 1289 |
| Micromega | 1189 |
| Mitsubishi | 1393 |
| Myryad | 1189 |
| Nakamichi | 1313 |
| Onkyo | 0135, 0380, 0842, 1298, 1320, 1531 |
| Optimus | 0186, 0531, 1023, 1074 |
| Panasonic | 0309, 1288, 1308, 1316, 1350, 1363, 1518, 1548, 1633, 1763, 1764 |
| Philips | 0189, 1189, 1266, 1269 |
| Pioneer | 0014, 0150, 0531, 0630, 1023, 1384 |
| Polk Audio | 0189, 1289, 1414 |
| Proscan | 1254 |
| RCA | 0531, 1023, 1074, 1254, 1390, 1511, 1609 |
| Samsung | 1295, 1304, 1500 |
| Sansui | 0189, 1189 |
| Sanyo | 1469, 1801 |
| Sharp | 0186 |
| Sherwood | 1077 |
| Sirius | 1811 |
| Sony | 0168, 1058, 1258, 1406, 1441, 1558, 1622, 1658, 1758, 1759, 1858 |
| Stereophonics | 1023 |
| Sunfire | 1313 |
| Teac | 1074, 1267, 1390, 1528 |
| Technics | 0309, 1308, 1518, 1633 |
| Thorens | 1189 |
| Toshiba | 0135 |
| Venturer | 1390 |
| Wards | 0014, 0189 |
| XM | 1406, 1414 |
| Yamaha | 0176, 0186, 1176, 1276, 1331, 1375 |

# Main menu layout

The tables below and on the next page provide a quick overview of your TV's menu system.
To open the main menus (illustrated below), press MENU on the remote control or TV control panel.

| Icon | Item | Option |
|---|---|---|
| **Applications** | Picture Viewer | → [Launches the JPEG Picture Viewer] |
| | Audio Player | → [Launches the MP3 Audio Player] |
| | Personal E-mail | → [Launches the Personal E-mail] |
| | Channel Browser™ | → [Launches the Channel Browser™] |
| | TV Guide On Screen™ | → [Opens the TV Guide On Screen™ feature] |
| | Digital CC/Audio Selector | → [Launches the ATSC Digital CC Selector] (This feature is not available if the TV is not tuned to a digital channel). |
| | CableCARD™ | → Dynamic list of items provided by Cable company. (This option is not available if a CableCARD™ is not inserted.) |
| **Video** | Mode | → Sports/Standard/Movie/Preference/Pro 1/Pro 2 |
| | Picture Settings | → [Opens the Picture Settings menu] |
| | Noise Reduction | → [Opens the Noise Reduction menu] |
| | Color Management Pro | → [Opens the Color Management Pro menu] |
| | Game Mode | → On/Off |
| | Theater Settings | → [Opens the Theater Settings menu] |
| **Audio** | Audio Settings | → [Opens the Audio Settings menu] |
| | Advanced Audio Settings | → [Opens the Advanced Audio Settings menu] |
| | Audio Setup | → [Opens the Audio Setup menu] |
| **Preferences** | Closed Caption Mode | → OFF/CC1/CC2/CC3/CC4/T1/T2/T3/T4 |
| | Closed Caption Advanced | → [Opens the Closed Caption Advanced menu] |
| | Input Labeling | → [Opens the Input Labeling menu] |
| | Menu Language | → English/French/Spanish |
| | Channel Browser Setup | → [Opens the Channel Browser Setup menu] |
| **Locks** | Enable Rating Blocking | → Off/On |
| | Edit Rating Limits | → [Opens the Edit Rating Limits menu] |
| | Channels Block | → [Opens the Channels block menu] |
| | Input Lock | → Off/Video/Video+ |
| | Front Panel Lock | → Off/On |
| | GameTimer™ | → Off/30 Min/60 Min/90 Min/120 Min |
| | New PIN Code | → [Opens the New PIN Code entry screen] |
| **Setup** | Installation | → [Opens the Installation menu (☞ page 23)] |
| | Sleep Timer | → [Opens the Sleep Timer menu] |
| | On/Off Timer | → [Opens the On/Off Timer menu] |
| | PC Settings | → [Opens the PC Settings menu] |
| | PC Audio | → No/Yes |
| | HDMI 1 Audio | → Auto/Digital/Analog |
| | Slide Show Interval | → 2 Sec/5 Sec/10 Sec/15 Sec/20 Sec |

# Setup/Installation menu layout

The Installation menu contains the Terrestrial, Network, TV Guide On Screen™ Setup, Time and Date, and System Status menus (as described below).

To open the **Installation** menu (illustrated below), press MENU on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press ENTER.

| | Icon | Item | Option |
|---|---|---|---|
| Press MENU, open the **Setup** menu, and then open the **Installation** sub-menu. | **Terrestrial** | Input Configuration | → [Opens the Input Configuration menu] |
| | | Channel Program | → ANT1 → [Scans for new channels on ANT1]<br>→ ANT2 → [Scans for new channels on ANT2] |
| | | Channel Add/Delete | → [Opens the Channel Add/Delete menu] |
| | | Signal Meter | → [Opens the Signal Meter menu] |
| | **Network** | Basic Network Setup | → [Opens the Basic Network Setup menu] |
| | | Personal E-mail Setup | → [Opens the Personal E-mail Setup menu] |
| | | E-mail Scheduling Setup | → [Opens the E-mail Scheduling Setup menu] |
| | | Home File Server Setup | → [Opens the Home File Server Setup menu] |
| | | Software Upgrade | → [Opens the Software Upgrade menu] |
| | **TV Guide On Screen™ Setup** | Start | → [Opens the TV Guide On Screen™ Setup menu] |
| | **Time and Date** | Start Setup | → [Opens the Time and Date Setup menu] |
| | **System Status** | System Information | → [Opens the System Information screen] |

# THINC™ menu layout

The THINC* menu provides access to the **Picture Viewer**, **Audio Player**, **Personal E-mail**, **Channel Browser**, **Favorites Browser**, and **TV Guide On Screen** features.

The THINC menu is not part of the main menu system. You can only view the THINC menu by pressing THINC on the remote control.

* Toshiba Home Interactive Network Connection.

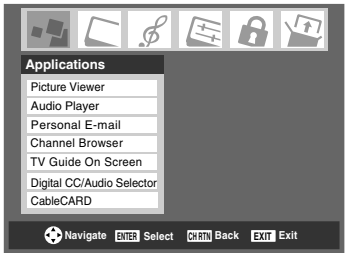
# Navigating the menu system

You can use the buttons on the remote control or TV control panel to access and navigate your TV's on-screen menu system.

- Press MENU to open the menu system.
- When a menu is open, use the up/down/left/right arrow buttons (▲▼◀▶) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press ENTER to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press EXIT.

***Note:***

- *The menu backgrounds may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.*




- *The Video sub-menu appears with a black background which looks different from other menus.*

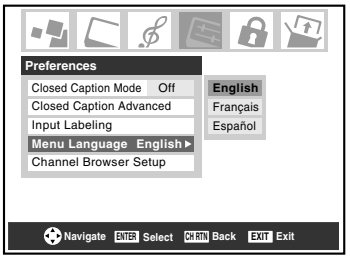
## Selecting the menu language

You can choose from three different languages (English, French, and Spanish) for the on-screen display of menus and messages.

***Note:*** *The TV Guide On Screen™ menus are in English, regardless of the language selected in this menu.*

### To select the menu language:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Menu Language** and press ▶.
3. Press ▲ or ▼ to select your preferred menu language and press ENTER.

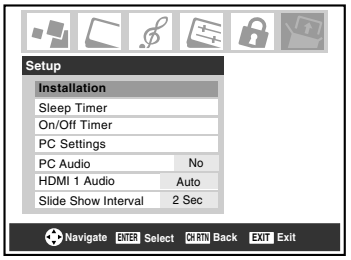



4. Press EXIT to close the **Preferences** menu.

## Configuring the antenna input sources for the ANT 1 and ANT 2 terminals

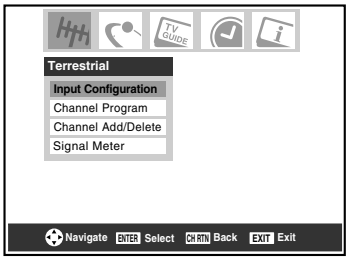
### To configure the ANT 1 and ANT 2 input sources:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.




3. (A new set of **Installation** menu icons will appear on-screen, as shown below.) Open the **Terrestrial** menu, highlight **Input Configuration**, and press ENTER.

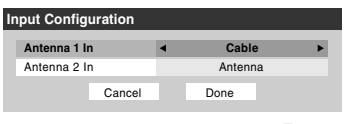
   ***Note:*** *The Terrestrial menu may not be accessible (items will be "grayed out") in some instances (for example, if a cable box is connected to the ANT 1 input or if one of the VIDEO modes is the current input during TV Guide On Screen™ setup).*




4. Press ▲ or ▼ to highlight **Antenna 1 In**, and then press ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT 1** input on the TV.

   ***Note:*** *If a cable box is connected to the ANT 1 input during TV Guide On Screen™ setup, the entire Terrestrial menu will not be accessible, including the input source for ANT 1, which will automatically display "Cable Box."*

5. Press ▼ to highlight **Antenna 2 In** and then ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT 2** input on the TV, if applicable. If you have not connected anything to the **ANT 2** input, skip this step.




6. To save your new settings, highlight **Done** and press ENTER. To revert to your original settings, highlight **Cancel** and press ENTER.

# Programming channels into the TV's channel memory

When you press CH▲ or CH▼ on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV's channel memory.

Follow the steps below to program channels into the TV's channel memory.

## Programming channels automatically

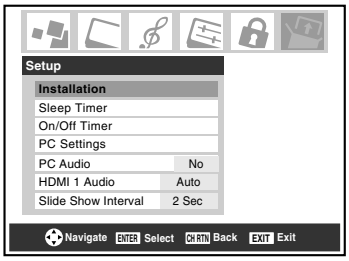
Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

***Note:***

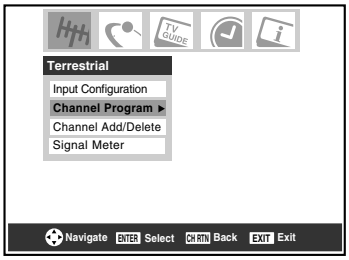
- *You must configure the antenna input source before programming channels (☞ page 25).*
- *If the Antenna 1 input signal type is set to **Cable**, the automatic channel programming process erases channels that were previously programmed into the TV's memory.*
- *If the Antenna 1 input signal type is set to **Antenna**, the automatic channel programming process adds newly found channels to the existing set of programmed channels (and does NOT erase channels that were previously programmed into the TV's memory). To remove an antenna source channel from the memory, you must manually delete it.*
- *To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.*
- *Programming channels when the antenna input is configured for **Cable** will take substantially longer than when the antenna input is configured for **Antenna**. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.*
- *If you have a CableCARD™ inserted, channel programming for the **ANT 1** input is disabled because the CableCARD™ automatically loads the Cable channel list into the TV's channel memory. See the Installation Guide for details on CableCARD™.*

**To program channels automatically:**

1. Configure the antenna input sources, if you have not already done so (☞ page 25).
2. Press MENU and open the **Setup** menu.
3. Highlight **Installation** and press ENTER.




4. (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Program**, and press ENTER.




5. Highlight **ANT 1** (or **ANT 2**) and then press ENTER to start automatic channel programming.

The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message "Scanning channels, please wait" appears (as shown above).

6. To cancel channel programming, press EXIT on the remote control (or highlight **Abort** in the on-screen display and press ENTER).

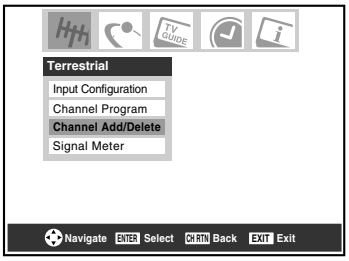
When channel programming is finished, press CH▲ or CH▼ to view the programmed channels.

## Manually adding and deleting channels in the channel memory

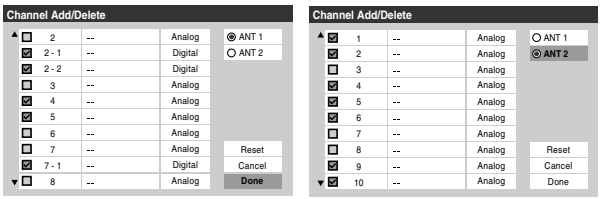
After automatically programming channels into the channel memory, you can manually add or delete individual channels.

### To add or delete channels in the channel memory:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Add/Delete**, and then press ENTER.




4. The illustration below left shows channels programmed for the ANT 1 antenna input. To view the list of channels programmed for the ANT 2 or Cable box antenna input, press ▲▼ to highlight **ANT 2** and press ENTER.




### To add a channel to the channel memory:

Highlight the unchecked box next to the channel number you want to add, and then press ENTER to check the box.

### To manually add digital subchannels on a physical channel:

Use the Channel Numbers and the Dash (100) on the remote control to enter the channel number (for example, 56–1).

If the channel is found, the number will be added to the list and the box will be checked.

If the channel is not found, a message will appear.

### To remove a channel from the channel memory:

Highlight the checked box next to the channel number you want to remove, and then press ENTER to uncheck the box.

### To save your new settings:

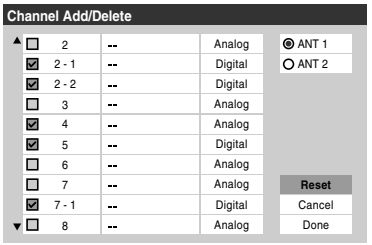
Highlight **Done** and press ENTER.

### To revert to your original settings:

Highlight **Cancel** and press ENTER before saving.

### To remove all channels from the channel memory:

Highlight **Reset** and press ENTER, and then highlight **Done** and press ENTER.



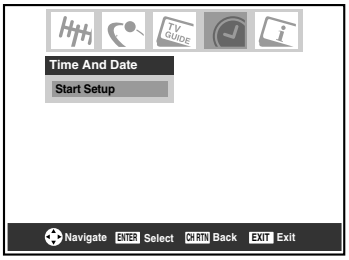

***Note:*** *This action applies to the current antenna input only. To delete/add channels on the other input, highlight the other input and press ENTER.*

# Setting the time and date

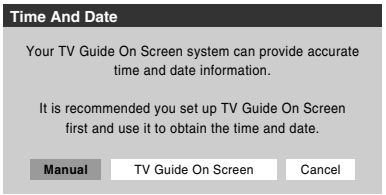
***Note:*** *If you already set up the TV Guide On Screen™ system, the time and date were set automatically and you can skip this step.*

**To set the time and date:**

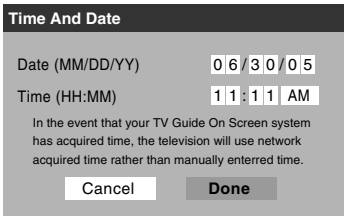
1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. (A new set of **Installation** menu icons will appear, as shown below.) Open the **Time And Date** menu, highlight **Start Setup**, and press ENTER.




If you have not set up the TV Guide On Screen™ system, the following screen will appear. To set the time, highlight **TV Guide On Screen™** and press ENTER. The TV Guide On Screen™ setup sequence will start, and the time and date will be set automatically.




If you have already set up the TV Guide On Screen™ system, or if you have not set up the time, the Time and Date setting screen will appear and you will need to manually set the time and date.



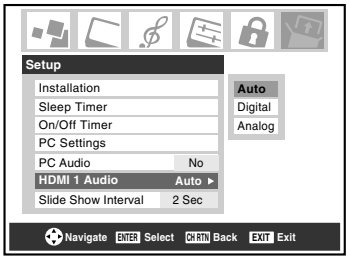

***Note:***

- *If you highlight **TV Guide On Screen™** (above) to set the time and date through the TV Guide On Screen™ system and a power outage occurs, the time and date will be updated automatically when the power is restored.*
- *If you highlight **Manual** (above) to set the time and date manually and a power outage occurs, you will lose the time and date settings when the power is restored.*
- *If you manually set the time and date and then perform TV Guide On Screen™ setup, the manual time and date settings will be overridden by the TV Guide On Screen™ settings.*

# Setting the HDMI™ audio mode

**To set the HDMI audio mode:**

1. Press MENU and open the **Setup** menu.
2. Highlight **HDMI 1 Audio** and press ▶.
3. Press ▼ or ▲ to select the HDMI audio mode (**Auto**, **Digital**, or **Analog**) and press ENTER. (**Auto** is the recommended mode.) See "Connecting an HDMI or DVI device to the HDMI input" (☞ *Installation Guide*).



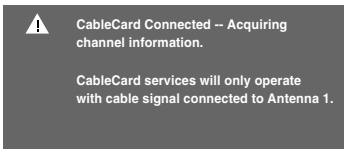

***Note:*** *Because the PC IN and HDMI (DVI) IN inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI 1 Audio** menu setting. If **PC Audio** is set to "No," the **HDMI 1 Audio** setting changes to "Auto." If **PC Audio** is set to "Yes," the HDMI Audio setting is set to "Digital" and is grayed out in the menu. (Also see item 4 on page 9 and "Setting the PC Audio mode" on page 52.)*

# Viewing the CableCARD™ menu

A CableCARD™ enables you to view encrypted digital channels. For connection and subscription information, see "Connecting a digital CableCARD™" in the *Installation Guide*.

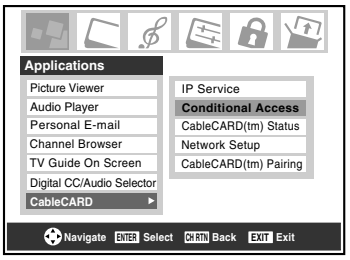
***Note:*** *Connecting your TV directly to the Audio/Video output of your set-top box may provide a more vivid picture.*

After the CableCARD™ is inserted, a CableCARD™ option appears in the **Applications** menu, with informational screens provided by your digital CableCARD™ service (see sample illustration under step 3, below).




### To view the CableCARD™ menu:

1. Press MENU and open the **Applications** menu.
2. Highlight **CableCARD™** and press ▶.
3. Press ▲ or ▼ to select one of the side menu items and then press ENTER to display the information.




***Note:*** *The CableCARD™ menu is for informational purposes only and has no user-adjustable options.*

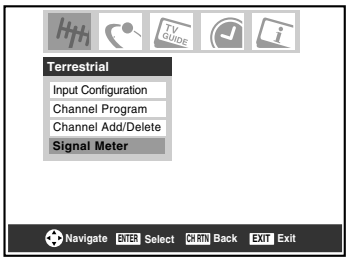
# Viewing the digital signal meter

You can view the digital signal meter for the ANT 1 and ANT 2 digital TV input sources only.

### To view the digital signal meter:

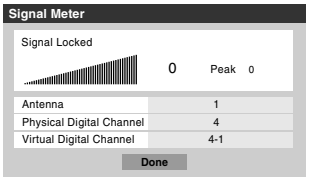
1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. A new set of Installation menu icons will appear, as shown below.

   Open the **Terrestrial** menu, highlight **Signal Meter**, and press ENTER.




4. Press ▲▼◀▶ to select the antenna input and digital channel whose signal you want to check.

   ***Note:*** *The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.*




### To close the screen and return to the Terrestrial menu:

Highlight **Done** and press ENTER.

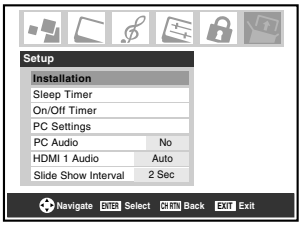
### To return to normal viewing:

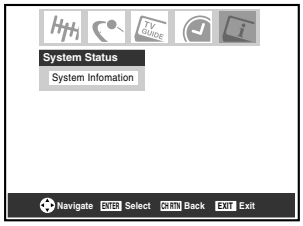
Press EXIT.

# Viewing the system status

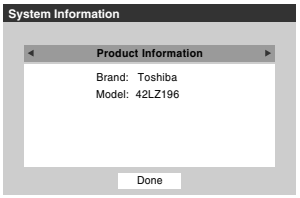
**To view the system status:**

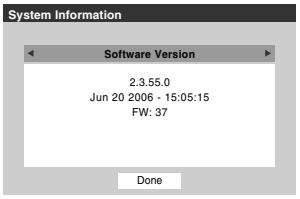
1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. A new set of Installation menu icons will appear, as shown below right. Open the **System Status** menu, highlight **System Information**, and press ENTER.




4. Press ◀▶ to scroll through the menu bar to select either **Product Information** or **Software Version** and view the related information.




**To close the screen and return to the Installation menu:**

Highlight **Done** and press ENTER.

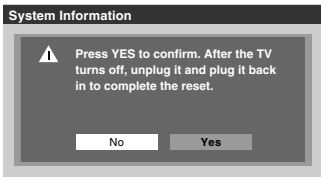
**To return to normal viewing:**

Press EXIT.

## Reset Factory Defaults

**To reset all settings and channels to their factory default values:**

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER. A new set of Installation menu icons will appear.
3. Open the **System Status** menu, highlight **System Information**, and press ENTER.
4. Press ◀▶ to scroll through the menu bar to select **Factory Defaults**.
5. Enter your PIN code (or 0000 if no PIN code has been set).
6. Highlight **Yes** and press ENTER. The TV will turn off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.




**To cancel the reset:**

Highlight **No** and press ENTER.

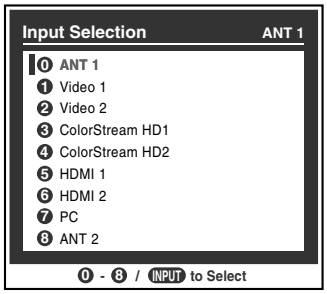
## Selecting the video input source to view

The video inputs available to view will be determined by the input terminals you used to connect your devices (see the *Installation Guide*).

### To select the video input source to view:

1. Press INPUT on the remote control or TV control panel.
2. And then either:
   a) Press 0-8; or
   b) Repeatedly press ▲▼ on the remote control (or **CHANNEL** ▲▼ on the control panel) to change the input; or
   c) Repeatedly press INPUT on the remote control or TV control panel to change the input.

   The current signal source displays in the top right corner of the **Input Selection** screen.




***Note:***

- *You can label the video input sources according to the specific devices you have connected to the TV (☞ "Labeling the video input sources" at right).*
- *The source can be "hidden" (☞ "Labeling the video input sources" at right).*

## Labeling the video input sources

You can label each video input source to describe the type of device you connected to each source. You can choose from the following preset list of labels:

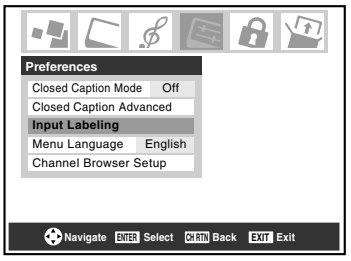
- "– –" (*default label*)
- Cable
- DTV
- Satellite/DSS
- VCR
- Laser Disk
- DVD
- HD DVD
- Audio Receiver
- Compact Disc
- Video Recorder
- Game Console
- Hide (to skip over an unused input in the **Input Selection** screen)

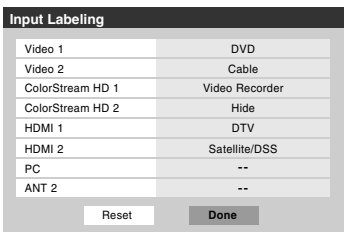
***Note:***

- *If you select ANT 2 in the Input selection screen, you can choose only "– –" or "Hide" as the label.*
- *If you select PC in the Input Selection screen, you can choose only "– –," "Hide," or "Game Console" as the label.*

### To label the video input sources:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Input Labeling** and press ENTER.
3. Press ▲ or ▼ to highlight the video source you want to label.



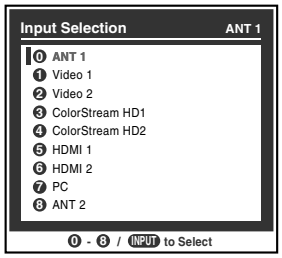

4. Press ◀ or ▶ to select the desired label for that input source. If a particular input is not used, you can select **Hide** as the label, which will cause that input to be "grayed out" in the Input Selection screen and skipped over when you press INPUT on the remote control.

*(continued)*

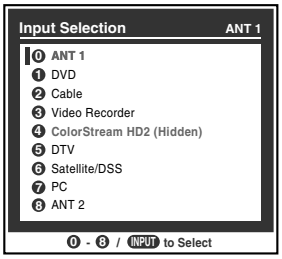
**5** To save the new input labels, highlight **Done** and press ENTER.
To revert to the factory default labels, highlight **Reset** and press ENTER.

### Input labeling example:

The screen below left shows the default **Input Selection** screen (with none of the inputs labeled as a specific device). The screen below right is an example of how you could label the inputs if you connected a DVD player to VIDEO 1, Cable TV to VIDEO 2, a video recorder to ColorStream HD1, a DTV set-top box to HDMI 1, and a satellite/DSS set-top box to HDMI 2. Also note that the ColorStream HD2 input is labeled "Hidden," which means that input will be skipped over when INPUT is pressed.




Input Selection screen with no inputs labeled.




Input Selection screen with all inputs labeled except input 4, which has been hidden.

### To clear the input labels:

**1** Press MENU and open the **Preferences** menu.
**2** Highlight **Input Labeling** and press ENTER.
**3** Highlight **Reset** and press ENTER.

# Tuning channels

## Tuning channels using the Channel Browser™

The Channel Browser™ provides an easy navigation interface for all your channels and inputs. This feature allows you to:

- Navigate the contents of all of your inputs.
- Keep a list of your favorite channels (see "Favorite Browser," below).
- Provide Cable Box and Satellite Box lists.
- Keep a history of the last 32 channels or inputs viewed.
- Quickly surf and tune your recently viewed channels/inputs from the Channel Browser™ History List (illustrated on the next page).
- Surf via Browse mode (to immediately tune channels as you highlight them in the Channel Browser™) or Select mode (to surf over channels in the Channel Browser™ before you select one to tune).
- Quickly change inputs from the Inputs List.

### Favorite Browser

The Favorite Browser allows you to quickly set up a favorite channels/inputs list that is integrated into the Channel Browser™.

#### To add a favorite channel/input:

**1** Tune to the channel or input.
**2** Press and hold FAV BROWSER for 3 seconds.

***Note:*** *Additions are added to the beginning of the Favorite list on the left side of the Channel Browser™.*

#### To delete a favorite channel/input:

**1** Press FAV BROWSER to open the Favorite browser list.
**2** Highlight the channel or input to delete by pressing BACK CH ◀ or NEXT CH ▶.
**3** Press and hold 100 for 3 seconds. The channel/input will be removed from the Favorite list.

### Picture Preview

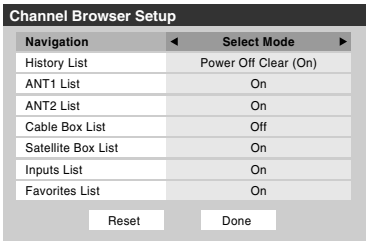
- A small thumbnail preview of the current channel or input will appear in the list.
- Picture snapshots will be taken when a source change occurs from the Channel Browser™.
- Up to 32 picture previews can be stored in the Channel Browser™ across all lists. If you add a new picture when the total = 32, the oldest thumbnail will be deleted.
  One thumbnail is counted only once against the total, no matter how many times it appears in various lists.
- Turning off the TV deletes all of the current thumbnails.

### To set up the Channel Browser™:

1 Press MENU and open the **Preferences** menu.

2 Highlight **Channel Browser Setup** and press ENTER.

3 Press ▲ to highlight **Navigation**, and then press ◀ or ▶ to select either **Browse Mode** or **Select Mode**.




4 Press ▼ to highlight **History List**, and then press ◀ or ▶ to select the setting you prefer: either **Power Off Clear (On)**, **On**, or **Off**.

***Note:*** *When History List is set to* ***On****, the channels and inputs stored in the list will be saved every power on/off cycle. When History List is set to* ***Power Off Clear (On)****, the channels and inputs stored in the list will be cleared with every power on/off cycle of the TV.*

5 Press ▼ to highlight **ANT1 List**, and then press ◀ or ▶ to select **On** or **Off**.

6 Press ▼ to highlight **ANT2 List**, and then press ◀ or ▶ to select **On** or **Off**.

7 Press ▼ to highlight **Cable Box List**, and then press ◀ or ▶ to select **On** or **Off**.

8 Press ▼ to highlight **Satellite Box List**, and then press ◀ or ▶ to select **On** or **Off**.

9 Press ▼ to highlight **Inputs List**, and then press ◀ or ▶ to select **On** or **Off**.

10 Press ▼ to highlight **Favorites List**, then press ◀ or ▶ to select **On** or **Off**.

11 To save your entries, highlight **Done** and press ENTER.
To return to factory defaults, highlight **Reset** and press ENTER.

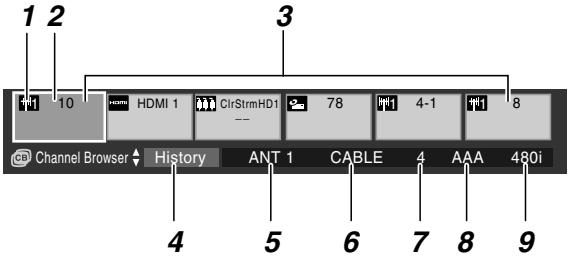
***Note: Cable Box List*** *and* ***Satellite Box List*** *will be grayed out and set to* ***Off*** *by default. They will remain this way until a Cable Box and/or Satellite Box is configured from the TV Guide setup.*

### To open the Channel Browser™:

- Press BACK ◀, NEXT ▶, or FAV BROWSER on the remote control.
- Press BACK ◀ to surf backward through the currently selected list.
- Press NEXT ▶ to surf forward through the currently selected list.

***Note:*** *The Channel Browser™ is not available while the TV is in POP mode.*

## Elements of the Channel Browser™




***1*** Input type

***2*** Highlighted item (channel or input)

***3*** Channels with thumbnails stored in the **History List**

***4*** Current list (**History**, **ANT 1**, **ANT 2**, **Cable Box**, **Satellite Box**, **Inputs**, or **Favorites**)

***5*** Current input

***6*** Current antenna type (cable or TV)

***7*** Active channel number

***8*** Channel call letters (if available)

***9*** Resolution

### To toggle among the available lists:

After opening the Channel Browser™, press ▲ or ▼ to toggle among **History**, **ANT 1**, **ANT 2**, **Cable Box**, **Satellite Box**, **Inputs** and **Favorites**.

***Note:***

- *The Channel Browser™ opens the* ***History List*** *by default. Once another list has been selected, the Channel Browser™ will open the last selected list.*
- *If all lists are turned off, pressing BACK ◀, NEXT ▶, or FAV BROWSER will not display the Channel Browser™. If* ***Favorites List*** *is turned off, FAV BROWSER will have no effect.*
- *Pressing FAV BROWSER will bring up the Channel Browser™ Favorite list regardless of the last selected list in the Channel Browser™.*

### To tune to a channel or input in Browse mode:

1 While watching TV, press BACK ◀ or NEXT ▶ to open the Channel Browser™ and surf back to a previous item or forward to the next item in the list.
In **Browse** mode, when you stop on an item in the Channel Browser™, it will be highlighted and the TV will automatically tune to the channel or input.

2 Press EXIT to close the Channel Browser™.

***Note:*** *The Channel Browser™ will close automatically if you do not make a selection within 30 seconds.*

*(continued)*

### To tune to a channel or input in Select mode:

1 While watching TV, press BACK ◀ or NEXT ▶ to open the Channel Browser™ and surf back to a previous item or forward to the next item in the list.

In **Select** mode, when you stop on an item in the Channel Browser™, it will be highlighted but you must press ENTER to tune the TV to the highlighted item.

2 Press EXIT to close the Channel Browser™.

## Adding and clearing channels and inputs in the History List

### Adding channels and inputs to the History List:

As a channel or input is tuned, the Channel Browser™ adds it to the History List and displays it on the "right side" of the Channel Browser™. Previously tuned channels/inputs are "shifted" to the left, eventually moving off the left side. Press BACK ◀ to surf backward through the previously tuned channels/inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel Browser™.

The Channel Browser™ will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned using CH▲ or CH▼ on the remote control for at least 5 seconds.
- All inputs that are tuned for at least 5 seconds.

***Note:*** *Whenever an item is selected that cannot be tuned (for various reasons), the TV will automatically tune to the previously viewed channel or input.*

### Clearing channels from the History List:

- Reconfiguring the **ANT 1** or **ANT 2** input will clear the History List.

  ***Note:*** *See page 25 for details on configuring the antenna inputs.*
- Removing the CableCARD™ will clear the History List.
- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- If **History List** in the **Channel Browser Setup** is set to "**Power Off Clear (On)**," turning off the TV will clear the History List.

# Tuning to the next programmed channel

### To tune to the next programmed channel:

Press CH▲ or CH▼ on the remote control or TV control panel.

***Note:*** *This feature will not work unless you program channels into the TV's channel memory (☞ page 26).*

# Tuning to a specific channel (programmed or unprogrammed)

### Tuning analog channels:

Press the Channel Number buttons (0–9) on the remote control. For example, to select channel 125, press 1, 2, 5.

### Tuning digital channels:

Press the Channel Number (0–9) on the remote control, followed by the dash (100) and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, –, 1.

***Note:*** *If a digital channel is not programmed—either through the automatic channel scan (☞ page 26) or the channel add/delete function (☞ page 27)—you will have to tune the RF channel using the Channel Numbers and dash (100) on the remote control.*

## Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (and the dash (100) button if selecting a digital channel).
3. Press CH RTN on the remote control. The previous channel will be tuned. Each time you press CH RTN, the TV will switch back and forth between the last two channels that were tuned.

   ***Note:*** *If you press CH RTN from a non-antenna input, the TV will return to the last-viewed ANT input and channel.*

## Switching between two channels using SurfLock™

The SurfLock™ feature temporarily "memorizes" one channel in the CH RTN button, so you can return to that channel quickly from any other channel by pressing CH RTN.

### To memorize a channel in the CH RTN button:

1. Tune the TV to the channel you want to program into the CH RTN button.
2. Press and hold CH RTN for about 2 seconds until the message "Channel Memorized" appears on-screen. The channel has been programmed into the CH RTN button.
3. You can then change channels repeatedly, and when you press CH RTN, the memorized channel will be tuned.

The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that were tuned.

# Selecting the picture size

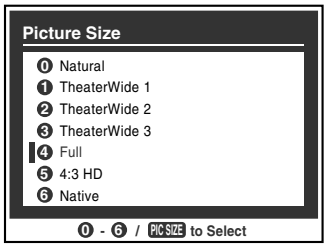
You can view many program formats in a variety of picture sizes—**Natural**, **TheaterWide 1**, **TheaterWide 2**, **TheaterWide 3**, **Full**, **4:3 HD** and **Native**.

***Note:*** *The "picture size" illustrations are examples only. The format of the image (in any of the picture sizes) will vary depending on the format of the signal you are currently watching. Select the picture size that displays the current program the way that looks best to you.*

You can save separate picture size preferences for each input on your TV.

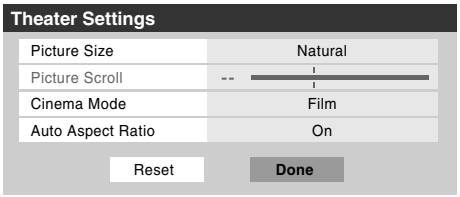
### To select the picture size using the remote control:

1. Press PIC SIZE on the remote control.
2. While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
   - Repeatedly press PIC SIZE.
   - Press the corresponding Number button (0-6) while the **Picture Size** screen is open.
   - Press ▲ or ▼ while the **Picture Size** screen is open.




### To select the picture size using the menus:

1. Select **Picture Size** in the **Theater Settings** menu.
2. Select the input for which you want to save your picture settings.
3. Highlight **Done** and press ENTER.



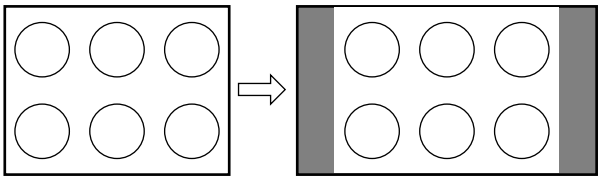

***Note: Full*** *picture size may not be available for some program formats (it will be "grayed out" in the* ***Picture Size*** *screen).*

Using these functions to change the picture size (i.e., changing the height/width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

***Note:*** *If you select one of the TheaterWide® picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either scroll the picture (****TheaterWide 2*** *and* ***3*** *only) or try viewing the program in* ***Full*** *or* ***Natural*** *picture size.*

## Natural picture size

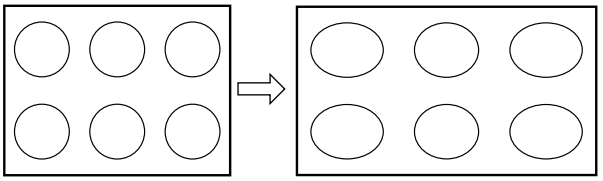
- The image is displayed close to its originally formatted proportion. Some program formats will display with sidebars and/or bars at the top and bottom.



Natural picture size example

## TheaterWide 1 picture size (for 4:3 format programs)

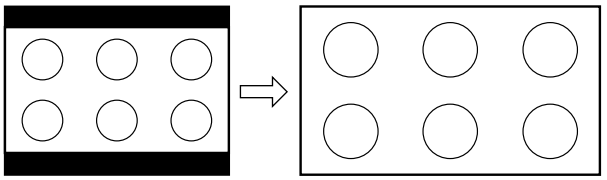
- The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.



TheaterWide 1 picture size example

## TheaterWide 2 picture size (for letter box programs)

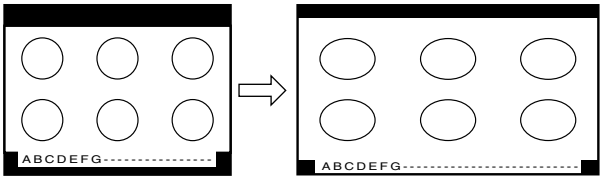
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges of the picture may be hidden. To view the hidden areas, see "Scrolling the TheaterWide® picture" on the next page.



TheaterWide 2 picture size example

### TheaterWide 3 picture size (for letter box programs with subtitles)

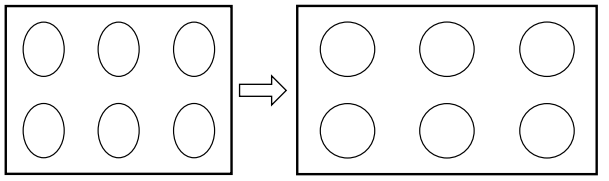
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges are hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the TheaterWide® picture," at right.




TheaterWide 3 picture size example

### Full picture size (for 16:9 [480i, 480p] source programs only)

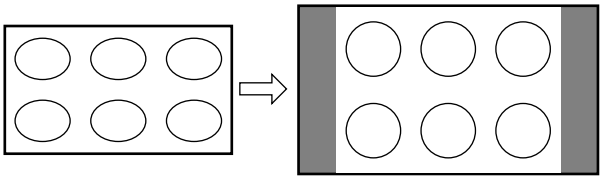
- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Full picture size example

### 4:3 HD picture size (for 720p, 1080i, and 1080p program sources only)

- The picture is squeezed to its original proportion.

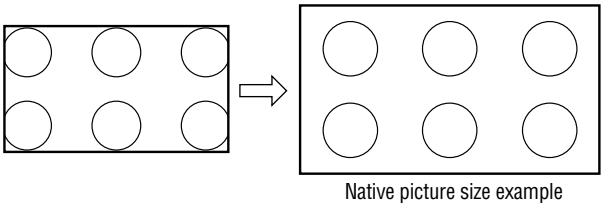


4:3 HD picture size example

### Native picture size (for 1080i and 1080p signal programs)

- If receiving a 1080i or 1080p signal program, the Native mode displays the entire picture without scaling.

***Note:*** *Native picture size is available for 1080i and 1080p signals only. If the signal being received is other than 1080i or 1080p, "**Native**" will be grayed out in the **Picture Size** screen.*



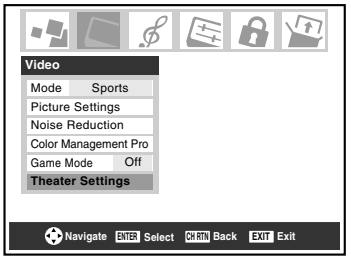
Native picture size example

## Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)

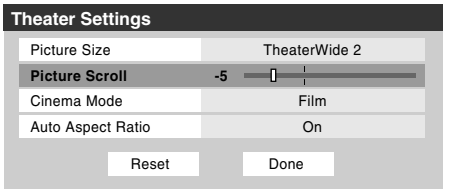
You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

**To set the scroll settings:**

1. Press MENU and open the **Video** menu.
2. Highlight **Theater Settings** and press ENTER.




3. In the **Picture Size** field, select either **TheaterWide 2** or **TheaterWide 3** (you cannot scroll in any other mode).
4. Press ▼ to highlight the **Picture Scroll** field.
5. Press ◀ or ▶ to scroll the picture up and down as needed, from –10 to +20.




6. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

# Using the auto aspect ratio feature

When the auto aspect ratio feature is set to **On**, the TV will automatically select the picture size when one of the following input sources is received:

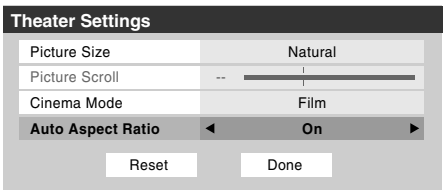
- A 480i signal from the **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, or **ColorStream HD-2** input.
- A 1080i, 1080p, 480i, 480p, or 720p signal from the **HDMI** input.

| Aspect ratio of signal source | Automatic aspect size (automatically selected when Auto Aspect is On) |
|---|---|
| 4:3 normal | Natural (with sidebars) |
| 4:3 letter box | TheaterWide 2 |
| 16:9 full | Full |
| Not defined (no ID-1 data or HDMI aspect data) | The current picture size you set under "Selecting the picture size" on page 36. |

***Note:*** *The auto aspect ratio feature is not applicable to antenna or cable input sources.*

### To turn on the auto aspect ratio feature:

1. Press MENU and open the **Video** menu.
2. Highlight **Theater Settings** and press ENTER.
3. In the **Auto Aspect Ratio** field, select **On**.




4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

### To turn off the auto aspect ratio feature:

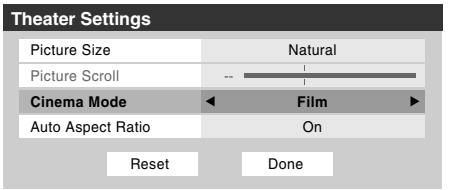
Select **Off** in step 3 above.

# Selecting the cinema mode (480i signals only)

When you view a DVD (480i signal; 3:2 pulldown processed) from a DVD player connected to the **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1, ColorStream HD-2** (component video), or **HDMI** input on the TV, smoother motion can be obtained by setting the **Cinema Mode** to **Film**.

### To set the Cinema Mode to Film:

1. Press MENU and open the **Video** menu.
2. Highlight **Theater Settings** and press ENTER.
3. In the **Cinema Mode** field, select **Film**.




4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

### To set the Cinema Mode to Video:

Select **Video** in step 3 above.

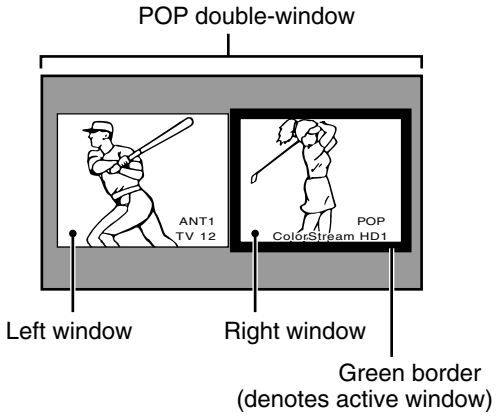
# Using the POP features

## Using the POP double-window feature

The POP (picture-out-picture) double-window feature splits the screen into two windows so you can watch two programs at the same time.

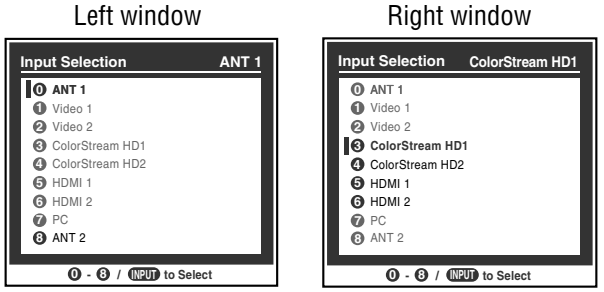
### To display a program in the POP window:

**1** Press POP to open the POP double-window.




**2** Press ◀ or ▶ to highlight the desired window. When highlighted, the window will have a green border.

**3** Press INPUT to open the **Input Selection** window. Select the input source for the POP window by pressing the corresponding Number button (0–8). The current source displays in red.




Left window — **ANT 1** and **ANT 2** inputs are selectable.
Right window — **ColorStream HD1** and **HD2** (only for 480p,1080i and 720p) and **HDMI 1** and **2** are selectable.

***Note:***

- *The message "Current video format cannot be displayed" will appear if you press POP when the TV is in **ColorStream HD1** or **HD2** mode and is receiving a 480i format signal.*
- *The FREEZE feature is not available when the POP double-window is open. If you press FREEZE when the POP double-window is open, the message "Not available from current video mode" will appear.*
- *If you labeled all of the inputs as HIDE (☞ page 31), the POP feature will be disabled and the message "Not Available" will appear if you try to open the POP double-window.*
- *The message "Not Available" will appear If you try to open the POP double-window when the Input Lock feature is in **Video** or **Video+** mode.*

### To tune to the highlighted window (and close the POP double-window):

Press ENTER after highlighting the window you want to view as a normal picture.

***Notes about recording:***

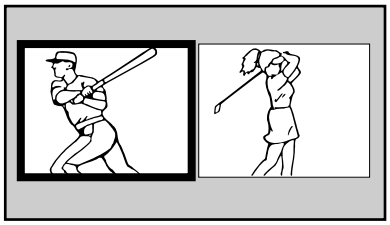
- *If the POP window is open and you attempt to start recording, the POP window will close before recording starts.*
- *If you use the TV's remote control to start recording, you will not be able to open the POP window and the message "Not Available" will appear if you try to do so.*
- *It is recommended that you use the TV's remote control to start recording. If you use a device other than the TV's remote control to start recording, you may accidentally open the POP window during the recording process. If this happens, the recorded audio will reflect the audio of the active window (left or right), which may not be the audio you intended to record.*

## Selecting the POP window audio out

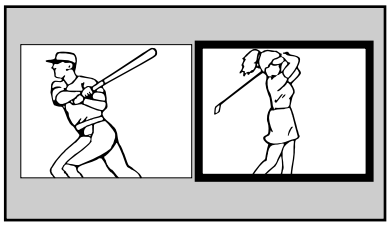
While the POP double-window is open, press ◀ or ▶ to select which audio (left or right POP window) to be output from the TV speakers (and also from the **VARIABLE AUDIO OUT** and **A/V AUDIO OUT** terminals).

The window with the active audio is outlined with a green border.

Example: Press ◀



Example: Press ▶



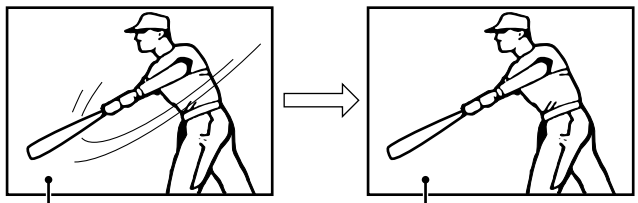
# Using the FREEZE feature

**To use the FREEZE feature:**

1. When viewing the TV, press FREEZE to make the picture a still picture.
2. To return to the moving picture, press FREEZE again (or any other button).

***Note:***

- *The FREEZE feature is not available when the POP double-window is open. If you press FREEZE, the message "Not available from current video mode" will appear.*
- *If the TV is left in FREEZE mode for more than 15 minutes, the FREEZE mode will automatically be released and the TV will return to the moving picture.*




Using the FREEZE function for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

# Adjusting the picture

## Selecting the picture mode

You can select your desired picture settings from four different modes, as described below.

| Mode | Picture Quality |
|---|---|
| Sports | Bright and dynamic picture (factory setting) |
| Standard | Standard picture settings (factory setting) |
| Movie | Lower contrast for darkened room (factory setting) |
| Preference | Your personal preferences |
| Pro 1 | Custom settings based on Standard mode |
| Pro 2 | Custom settings based on Movie mode |

### To select the picture mode:

1. Press MENU and open the **Video** menu.
2. Highlight **Mode** and press ENTER.

3. Press ▲ or ▼ to select the picture mode you prefer and press ENTER.

***Note:***

- *The picture mode you select affects the current input only. You can select a different picture mode for each input.*
- *If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change a picture quality setting (for example, increase the contrast or change the color temperature), the picture mode automatically changes to **Preference**.*
- *If you select **Pro 1** or **Pro 2** mode and then change a picture quality setting, those values are reflected in **Pro 1** or **Pro 2** mode.*

## Adjusting the picture quality

You can adjust the picture quality (Contrast, Back Light, Dynamic Back Light, Brightness, Color, Tint, and Sharpness) to your personal preferences.

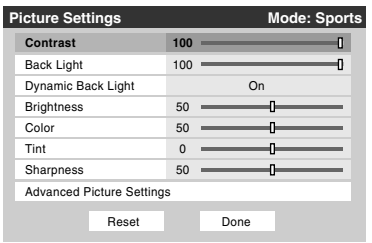
| Selection | Pressing ◀ | Pressing ▶ |
|---|---|---|
| Contrast | lower | higher |
| Back Light* | darker | lighter |
| Dynamic Back Light** | On/Off | On/Off |
| Brightness | darker | lighter |
| Color | paler | deeper |
| Tint | reddish | greenish |
| Sharpness | softer | sharper |

* Back Light: This function adjusts brightness of the entire screen.

** Dynamic Back Light: This function automatically strengthens the black coloring of dark area according to the level of darkness.

### To adjust the picture quality:

1. Press MENU and open the **Video** menu.
2. Highlight **Picture Settings**, and press ENTER.
3. Press ▲ or ▼ to select the picture quality you want to adjust (**Contrast**, **Back Light**, **Dynamic Back Light, Brightness**, **Color**, **Tint**, or **Sharpness**), and then press ◀ and ▶ to adjust the setting, as described in the table above.



4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

***Note:***

- *If you select the picture mode other than **Pro 1** or **Pro 2**, the picture qualities you adjusted are automatically saved in the **Preference** mode (☞ "Selecting the picture mode," at left).*
- *If you select **Pro 1** or **Pro 2** picture mode and then change a picture quality setting, those values are saved in **Pro 1** or **Pro 2** mode.*

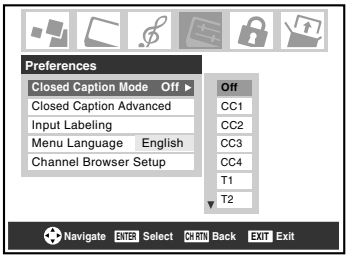
# Using the closed caption mode

The closed caption mode has two options:

- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked "CC" in program guides).
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

### To view captions or text:

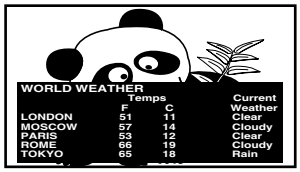
1. Press MENU and open the **Preferences** menu.
2. Highlight **Closed Caption Mode** and press ▶.
3. Press ▲ or ▼ to select the desired closed caption mode and press ENTER.




- **To view captions:**
  Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)

***Note:*** *If the program or video you selected is not closed captioned, no captions will display.*

- **To view text:**
  Highlight **T1**, **T2**, **T3**, or **T4**.




***Note:*** *If text is not available in your area, a black rectangle may appear on-screen. If this happens, set the Closed Caption Mode to Off.*

- **To turn off the Closed Caption mode:**
  Select **Off** in step 3 above.

***Note:*** *A closed caption signal may not display in the following situations:*

- *When a videotape has been dubbed*
- *When the signal reception is weak*
- *When the signal reception is non-standard*

# Closed Caption Advanced

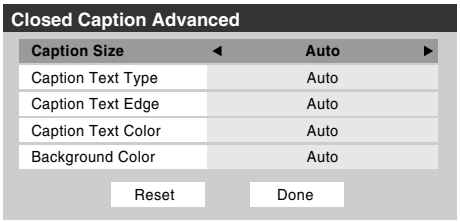
You can customize the closed caption display characteristics by changing the background color, text size, type, edge, and color.

***Note:***

- *This feature is available for digital channels only.*
- *You cannot set the Caption Text and Background as the same color.*

### To customize the closed captions:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Closed Caption Advanced** and press ENTER.




3. Press ▲ or ▼ to highlight the characteristic you want to change, and then press ◀ or ▶ to select the format for that characteristic (see table below).
4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

| | |
|---|---|
| Caption Size | Auto, Small, Standard, Large |
| Caption Text Type | Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals |
| Caption Text Edge | Auto, None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop shadow |
| Caption Text Color | Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan |
| Background Color | Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan |

## Digital closed captions

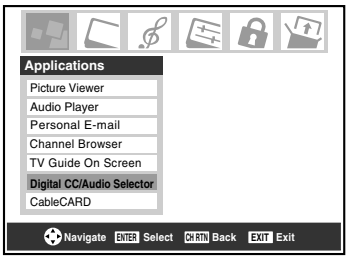
You can use the **Digital CC/Audio Selector** to select digital closed caption services (if available), which will temporarily override regular closed captions on digital channels (only).

When such services are not available, the **Digital CC/Audio Selector** presents a default list of services. If the selected service is not available, the next available service will be used instead.

### To select digital closed captions:

1 Press MENU and open the **Applications** menu.

2 Highlight **Digital CC/Audio Selector** and press ENTER.




3 Press ▲ or ▼ to select **Closed Caption**, and then press ◀ or ▶ to select the desired service.

4 Press EXIT.

## Using the Closed Caption button on the remote control

### If you press C.CAPTION when an analog channel is tuned:

- The CC selector will be active and will display CC1-4 and T1-4 as the options.
- The audio selector will be disabled.

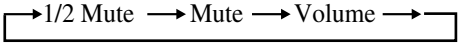
### If you press C.CAPTION when a digital channel is tuned:

- The CC selector will be active and will display the possible caption options (available languages) for that channel or service. For example, in addition to English, a channel might offer closed captions in Spanish and/or French.
- The audio selector will be active and will offer different audio choices for the digital channel (Dolby or AC3, for example).

# Adjusting the audio

## Muting the sound

Press MUTE to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press MUTE, the mute mode will change in the following order:




If the closed caption mode is set to **Off** when you select MUTE mode, the closed caption feature is automatically activated. To mute the audio without automatically activating the closed caption feature, use VOL to set the volume to 0. See "Using the closed caption mode" (☞ page 42) for more information on closed caption modes.

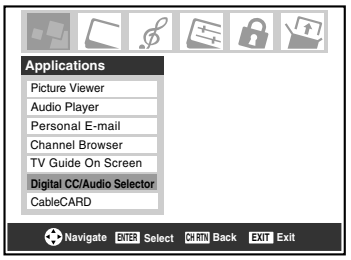
## Using the digital audio selector

You can use the Digital Audio Selector to conveniently switch between audio tracks on a digital channel (for those channels that have multiple audio tracks). This temporarily overrides the audio track chosen by the language option under **Audio Setup** (☞ "Selecting stereo/SAP broadcasts" on page 44).

### To use the digital audio selector:

1 Press MENU and open the **Applications** menu.

2 Highlight **Digital CC/Audio Selector** and press ENTER.




3 Press ▲ or ▼ to select **Audio**, and then press ◀ or ▶ to select the desired service.

4 Press EXIT.

## Selecting stereo/SAP broadcasts

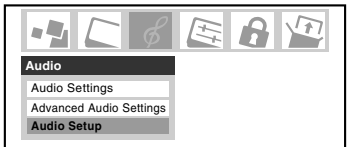
The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears when RECALL is pressed. The MTS feature is not available when the TV is in VIDEO mode.

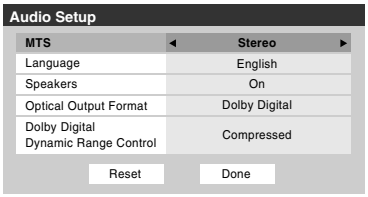
### To listen to stereo sound:

1 Press MENU and open the **Audio** menu.

2 Highlight **Audio Setup** and press ENTER.




3 In the **MTS** field, select **Stereo**.




4 To save the new settings, highlight **Done** and press ENTER. To reset the settings to the factory defaults, highlight **Reset** and press ENTER.

***Note:***

- *You can typically leave the TV in **Stereo** mode, because it will automatically output the type of sound being broadcast (stereo or monaural).*
- *If the stereo sound is noisy, select **Mono** to reduce the noise.*

### To listen to a second audio program on an analog station (if available):

Select **SAP** in step 3 above.

***Note:***

- *A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program's normal audio.*
- *If you have SAP on and the station you are watching is not broadcasting a second audio program, the station's normal audio will be output. However, occasionally there is no sound at all in **SAP** mode. If this happens, set the **MTS** feature to **Stereo** mode.*

### To listen to an alternate language on an ATSC digital station (if available):

Highlight the **Language** field in step 3 at left, and then press ◀ or ▶ to select the language you prefer.

## Adjusting the audio quality

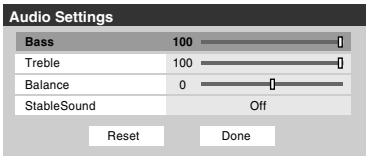
You can adjust the audio quality by adjusting the bass, treble, and balance.

### To adjust the audio quality:

1 Press MENU and open the **Audio** menu.

2 Highlight **Audio Settings** and press ENTER.

3 Press ▼ or ▲ to highlight the item you want to adjust (**Bass**, **Treble**, or **Balance**).




4 Press ◀ or ▶ to adjust the level.

- ◀ *makes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).*
- ▶ *makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).*

5 To save the new settings, highlight **Done** and press ENTER. To reset the settings to the factory defaults, highlight **Reset** and press ENTER.

## Using the StableSound® feature

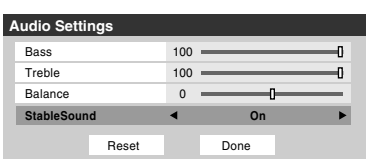
The StableSound® feature limits the highest volume level to prevent extreme changes in volume when the signal source changes (for example, to prevent the sudden increase in volume that often happens when a TV program switches to a commercial).

### To turn on the StableSound® feature:

1 Press MENU and open the **Audio** menu.

2 Highlight **Audio Settings** and press ENTER.

3 In the **StableSound** field, select **On**.



4 To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

***Note:*** *The RESET function returns your audio adjustments to the following factory settings:*

Bass . . . . . center (50)
Treble. . . . . center (50)
Balance . . . . . center (0)
StableSound. . . Off

### To turn off the StableSound feature:

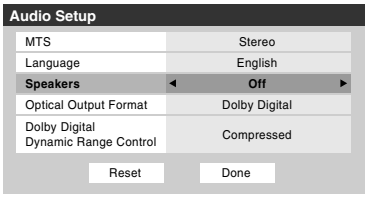
Select **Off** in step 3 above.

## Turning off the built-in speakers

You can use this feature to turn off the TV speakers when you connect an audio system to your TV (☞ "Connecting a digital audio system" and "Connecting an analog audio system" in the *Installation Guide*).

### To turn off the built-in speakers:

1 Press MENU and open the **Audio** menu.
2 Highlight **Audio Setup** and press ENTER.
3 In the **Speakers** field, select **Off**.




4 To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

### To turn on the built-in speakers:

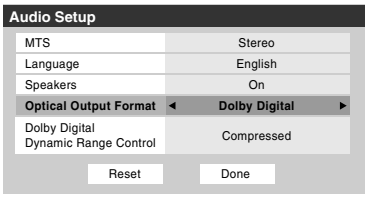
Select **On** in step 3 above.

## Selecting the optical audio output format

You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the **Optical Audio Out** terminal on the TV (☞ "Connecting a digital audio system" in the *Installation Guide*).

### To select the optical audio output format:

1 Press MENU and open the **Audio** menu.
2 Highlight **Audio Setup** and press ENTER.
3 In the **Optical Output Format** field, select either **Dolby Digital** or **PCM**, depending on your device.



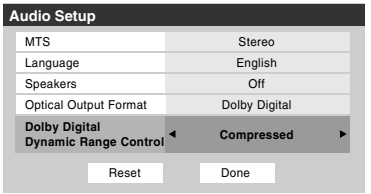

4 To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

## Using the Dolby Digital Dynamic Range Control feature

This dynamic range control feature causes the ATSC dynamic range to be further compressed, allowing you to switch from ATSC to analog broadcasts at the same dynamic range.

### To use the Dolby Digital Dynamic Range Control:

1 Press MENU and open the **Audio** menu.
2 Highlight **Audio Setup** and press ENTER.
3 In the **Dolby Digital Dynamic Range Control** field, select **Compressed**. When **Standard** is selected, the audio is output with minimal compression.




4 To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

***Note:***

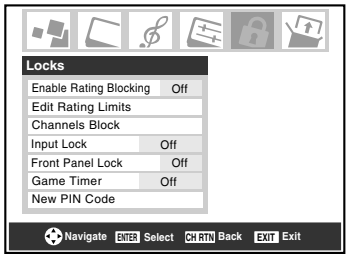
- *This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.*
- *The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format.*

# Using the Locks menu

The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Channels Block, Input Lock, Front (control) Panel Lock, and New PIN Code features. You can use these features after entering the correct PIN code.

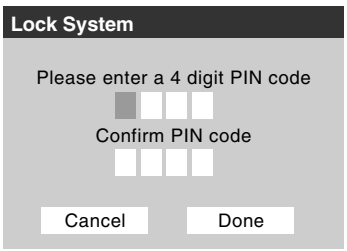
## Entering the PIN code

1 Press MENU and highlight the **Locks** menu icon.

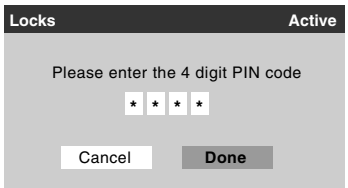



2 Press ▼, which displays the PIN code entry screen.

- The **Lock System** screen (below) appears if a PIN code has not been stored. Press the Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press ENTER.

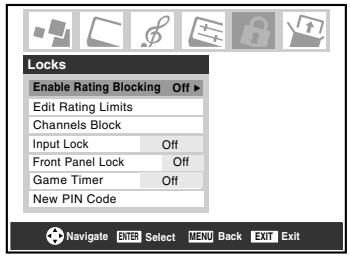



- The **Locks/Active** screen (below) appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press ENTER.




If the wrong PIN code is entered, the message "Incorrect PIN code, please try again!" appears. Highlight **Retry** and press ENTER. Enter the code again and press ENTER.

When the correct PIN code is entered, the **Locks** menu opens.




## If you cannot remember your PIN code

While the PIN code entering screen is displayed, press RECALL four times within five seconds. The PIN code will be cleared and you can enter a new PIN code.

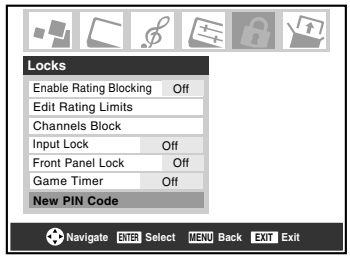
## Changing your PIN code

1 Press MENU and highlight the **Locks** menu icon.

2 Press ▼ to display the PIN code entering screen.

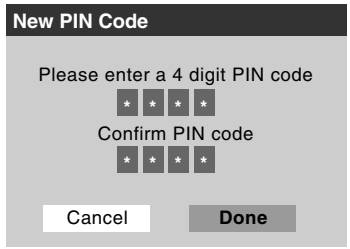
3 Enter your four-digit PIN code and press ENTER.

4 Press ▼ to highlight **New PIN Code** and press ENTER.




5 Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.

6 Press ENTER. The new PIN code is now active.



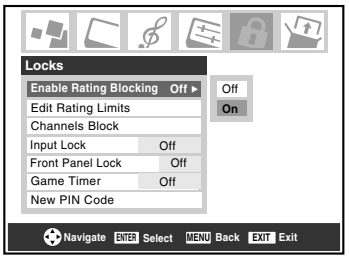
## Blocking TV programs and movies by rating (V-Chip)

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select. (For rating descriptions, see the tables on the next page.)

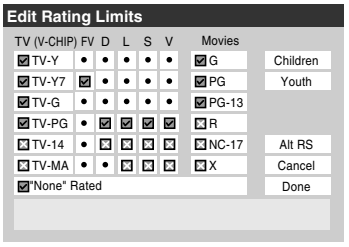
***Note:*** *Rating blocking is a function of the V-Chip feature in this TV, which supports the U.S. V-Chip system only.*

### To block and unblock TV programs and movies:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER.
4. Press ▼ to highlight **Enable Rating Blocking**.
5. Press ▶ and ▼ to select **On**, and press ENTER.




6. Press ▼ to highlight **Edit Rating Limits** and press ENTER. The **Edit Rating Limits** screen (below) appears.
7. Press ▲▼◀▶ and then press ENTER to select the level of blocking you prefer. A box with an "✕" is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.
8. When you are finished selecting the ratings you want to block, highlight **Done** and press ENTER.




## Downloading an additional rating system for blocking TV programs and movies

In the future, an additional rating system may become available for use in selectively blocking programs.

***Note:*** *The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.*

### To download the additional rating system (if available):

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER.
4. Press ▼ to highlight **Enable Rating Blocking**.
5. Press ▶ and ▼ to select **On**, and press ENTER.
6. Press ▼ to highlight **Edit Rating Limits** and press ENTER. The **Edit Rating Limits** screen appears.
7. Highlight **Alt RS** and press ENTER. The **Edit Alternate Ratings** screen will appear.

   ***Note:***
   - *The **Alt RS** button will only be available if an additional rating system is currently available.*
   - *It may take several minutes for the TV to download the additional rating system.*
   - *The information displayed in the **Alternate Ratings** screen will depend on the configuration of the additional rating system available at the time of download.*
8. Press ▲▼◀▶ and then press ENTER to select the level of blocking you prefer. A box with an "✕" is a rating that will be blocked.
9. When you are finished selecting the ratings you want to block, highlight **Done** and press ENTER.
10. In the **Edit Rating Limits** screen, highlight **Done** and press ENTER.

***Note:***
- *The additional rating system can only be downloaded one time. You will not be able to download any updates to the rating system should such updates become available.*
- *The additional rating system is not designed, transmitted, or controlled by the TV or Toshiba, nor is the availability of an additional rating system determined or controlled by Toshiba. Similarly, the rating of programs in an additional rating system is not determined, transmitted, or controlled by the TV or Toshiba.*
- *The additional rating system is an evolving technology; therefore, availability, content, and format may vary.*

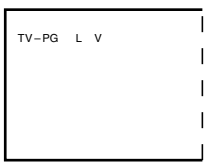
*(continued)*

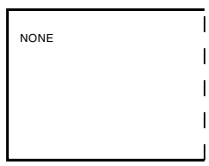
| Independent rating system for broadcasters | |
|---|---|
| **Ratings** | **Description and Content themes** |
| **TV-MA** | Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.)<br>**L)** Crude or indecent language **S)** Explicit sexual activity **V)** Graphic violence |
| **TV-14** | Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.)<br>**D)** Intensely suggestive dialog **L)** Strong, coarse language **S)** Intense sexual situations **V)** Intense violence |
| **TV-PG** | Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.)<br>**D)** Some suggestive dialog **L)** Infrequent coarse language **S)** Some sexual situations **V)** Moderate violence |
| **TV-G** | General Audience (Most parents would find this program suitable for all ages.) |
| **TV-Y7, TV-Y7FV** | Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated TV-Y7FV.) |
| **TV-Y** | All Children (This program is designed to be appropriate for all children.) |

| Independent rating system for movies | |
|---|---|
| **Ratings** | **Description and Content themes** |
| **X** | X-rated (For adults only) |
| **NC-17** | Not intended for anyone 17 and under |
| **R** | Restricted (Under 17 requires accompanying parent or adult) |
| **PG-13** | Parents Strongly Cautioned (Some material may be inappropriate for children under 13) |
| **PG** | Parental Guidance Suggested (Some material may not be suitable for children) |
| **G** | General Audience (Appropriate for all ages) |

***Note:***

- *If you place an "✕" in the box next to "**'None' Rated**," programs rated "**None**" will be blocked; however, programs that do not provide any rating information will not be blocked.*
- *To display the rating of the program you are watching, press RECALL on the remote control. If it is rated "None," the word "**NONE**" appears in the **RECALL** screen (as shown below right). If rating information is not provided, no rating will appear in the **RECALL** screen.*



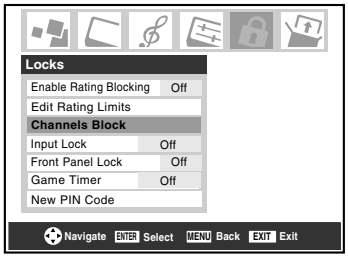




## Blocking channels

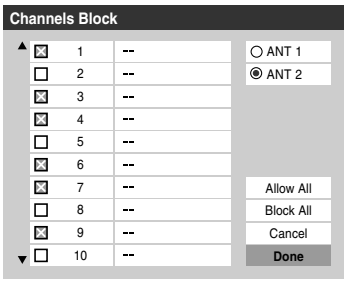
With the Channels Block feature, you can block specific channels. You will not be able to tune blocked channels unless you unblock them.

### To block channels:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER (☞ page 46).
4. Press ▼ to highlight **Channels Block** and then press ENTER.




5. Press ▲▼◀▶ to select the input for which you want to block channels (**ANT1** or **ANT2**) and press ENTER.
   A list of the channels available for that input will be displayed along with the call letters for each channel, if available.
6. Press ▲▼ to highlight the channel you want to block and press ENTER, which puts an "✕" in the box next to that channel.




7. Repeat step 6 for other channels you want to block.
8. Highlight **Done** and press ENTER.

### To unblock individual channels:

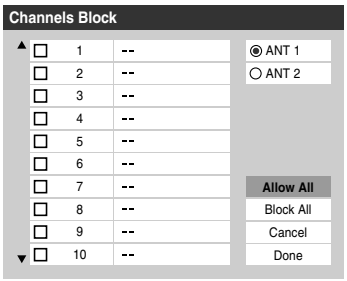
In step 6 above, press ▲▼ to highlight the channel you want to unblock, press ENTER to remove the "✕" from the box, highlight **Done** and press ENTER.

### To block all channels at once:

Highlight **Block All** in step 6 above, and then highlight **Done** and press ENTER.

### To unblock all blocked channels at once:

Highlight **Allow All** in step 6 on the previous page, and then highlight **Done** and press ENTER.




## Unlocking programs temporarily

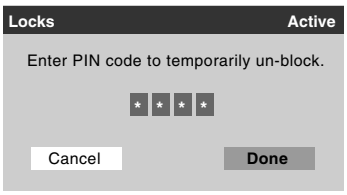
If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear:

This program exceeds the rating limit you set.
Push 'mute' to enter PIN.

You can either temporarily unlock the program or select an unlocked program to watch.

### To temporarily unlock the program:

1. Press MUTE.
2. Enter your four-digit PIN code and press ENTER. If the correct code is entered, the program lock mode is released and the normal picture appears. All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.

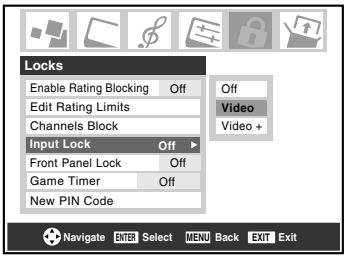



## Using the input lock feature

You can use the Input Lock feature to lock the video inputs (**VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, **ColorStream HD-2**, **HDMI 1**, **HDMI 2**, and **PC**) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

### To lock/unlock the video inputs:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER.
4. Press ▼ to highlight **Input Lock** and press ▶.




5. Press ▲ or ▼ to select the desired level of video input locking (**Video**, **Video+**, or **Off**, as described below), and then press ENTER.

   **Video:** Locks VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI 1/HDMI 2, and PC.

   **Video+:** Locks VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI 1/HDMI 2, PC and channels 3 and 4.

   - Select Video+ if you play video tapes via an ANT input.
   - When a CableCARD™ is inserted, Video+ will not lock channels 3 and 4.

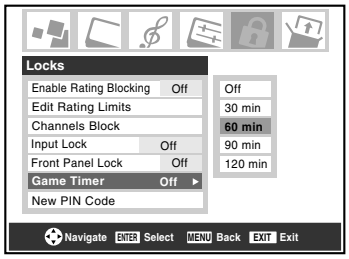
   **Off:** Unlocks all video inputs and channels 3 and 4.

## Using the GameTimer™

You can use the GameTimer to set a time limit for playing a video game (30–120 minutes). When the GameTimer is activated, the TV enters Input Lock mode and locks out the input source for the video game device.

### To set the GameTimer™:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER.
4. Press ▼ to highlight **Game Timer** and press ▶.
5. Press ▲ or ▼ to select the length of time until the Input Lock is activated (30, 60, 90, or 120 minutes) and press ENTER.




### To cancel the GameTimer™:

Select **Off** in step 5 above.

### To deactivate the Input Lock once the GameTimer has activated it:

Set the **Input Lock** to **Off** (☞ "Using the input lock feature" on the previous page).

***Note:***

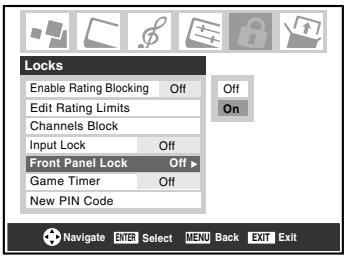
- *A message will appear when 10 minutes, 3 minutes, and 1 minute remain on the GameTimer.*
- *If the TV loses power with time remaining on the GameTimer, when power is restored the TV will enter Input Lock mode (as if the GameTimer had been activated) and you will have to deactivate the Input Lock (as described above).*

## Using the control panel lock feature

You can lock the control panel to prevent your settings from being changed accidentally (by children, for example). When the control panel lock is **On**, none of the controls on the TV control panel will operate except **POWER**.

### To lock the control panel:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER.
4. Press ▼ to highlight **Front Panel Lock**.
5. Press ▶, and then ▲ or ▼ to highlight **On** and press ENTER. When the control panel is locked and any button on the control panel (except **POWER**) is pressed, the message "**Not Available**" appears.




### To unlock the control panel:

Highlight **Off** in step 5 above, or press and hold the **VOLUME –** button on the TV control panel for about 10 seconds until the volume icon appears.

# Setting the sleep timer

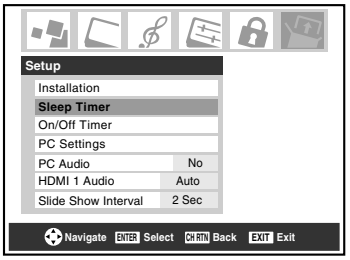
You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

### To set the sleep timer using the remote control:

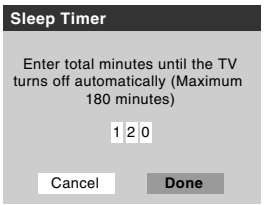
Press SLEEP on the remote control to set the length of time until the TV turns off. Repeatedly press SLEEP to increase the time in 10-minute increments, or press ▲ or ▼ to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

### To set the sleep timer using the menus:

1. Press MENU and open the **Setup** menu.
2. Highlight **Sleep Timer** and press ENTER.




3. Press the Number buttons to enter the length of time in 10-minute increments.



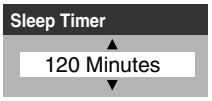

4. Highlight **Done** and press ENTER.

***Note:***

- *When a power failure occurs, the sleep timer setting may be cleared.*
- *A message will display when there is one minute remaining on the sleep timer.*

### To display the remaining sleep time:

Press SLEEP.




***Note:*** *You also can view the remaining sleep time by pressing* RECALL.

### To cancel the sleep timer:

Repeatedly press SLEEP until it is set to 0 minutes.

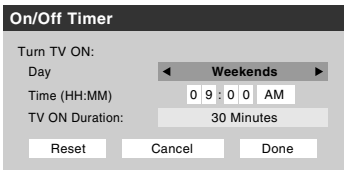
# Setting the On/Off Timer

You can set the **On/Off Timer** to turn the TV on and off automatically at a preset time on a recurring basis.

***Note:*** *You must first set the time (☞ page 28).*

### To set the On/Off Timer:

1. Press MENU and open the **Setup** menu.
2. Highlight **On/Off Timer** and press ENTER.
3. In the DAY field, press ◀ or ▶ to select the recurrence (weekends, weekdays, every day, etc).



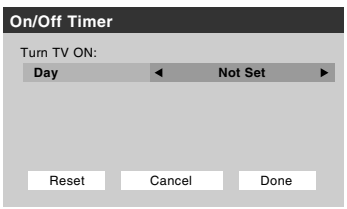

4. Press ▼ to highlight the **Time** field, and then use the Number buttons to enter the time you want the TV to turn on automatically.
5. When the **AM/PM** field is highlighted, press ▶ to select **AM** or **PM**.
6. Press ▼ to highlight the **TV ON Duration** field, and then press ◀ or ▶ to select the length of time until the TV turns off (**30 Minutes**, **1 Hour, 2 Hours**, **4 Hours**, **8 Hours**, or **12 Hours**).
7. Highlight **Done** and press ENTER.
8. Turn off the TV. The TV will turn on automatically on the day(s) and at the time you set. The TV will then turn off automatically after the length of time you set in the **TV ON Duration** field.

***Note:***

- *When a power failure occurs, the **On/Off Timer** settings may be cleared.*
- *To display the **On/Off Timer** setting, press* RECALL.

### To turn off the On/Off Timer:

Select **Not Set** in step 3 above.



# Using the PC settings feature

You can view the image from a PC on the TV screen. The PC must be connected to the TV's PC IN terminals (☞ *Installation Guide*).

The PC Settings feature allows you to make any necessary adjustments to the image.

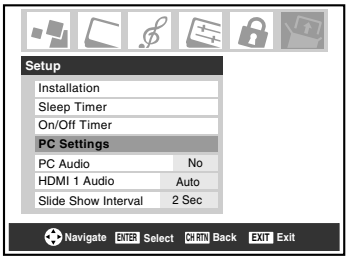
If the edges of the image are not visible, you can adjust the **Horizontal Position/Width** and **Vertical Position/ Height**.

If the picture is affected by interference, you can adjust the **Clock Phase** and **Sampling Clock**.

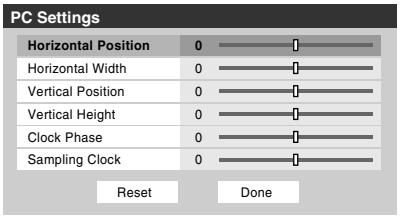
### To adjust the PC settings:

1. Repeatedly press INPUT to select PC input mode (☞ "Selecting the video input source to view" page 31).
2. Press MENU and open the **Setup** menu.
3. Highlight **PC Settings** and press ENTER.

   ***Note:*** *If a PC is not connected, this feature will be grayed out in the* ***Setup*** *menu.*




4. Press ▲ or ▼ to highlight the item you want to adjust.
5. Press ◀ or ▶ to make the appropriate adjustments.




***Note:*** *The screen is disrupted momentarily when adjusting the PC settings. This is not a sign of malfunction.*

- **Horizontal Position:**
  Moves the picture left/right.
  The adjustment range is within ±5 from center.*
- **Vertical Position:**
  Moves the picture up/down.
  The adjustment range is within ±5 from center.*
- **Horizontal Width:**
  Adjusts the width of the picture.
  The adjustment range is within ±5 from center.*
- **Vertical Height:**
  Adjusts the height of the picture.
  The adjustment range is within ±5 from center.*
- **Clock Phase:**
  Helps to reduce noise and sharpen the picture.
  The adjustment range is within ±2 from center.*
- **Sampling Clock:**
  Helps to reduce noise and minimize periodic vertical stripes on the screen.
  The adjustment range is within ±15 from center.*

* The range of adjustment may vary slightly.

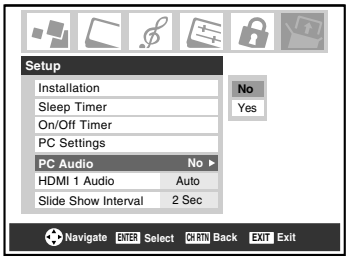
# Setting the PC Audio mode

This function allows you to output the sound from your PC (if connected) or mute the sound from your PC and output the sound from your HDMI (DVI) connection. (☞ *Installation Guide*)

### To set the PC Audio:

1. Press MENU and open the **Setup** menu.
2. Highlight **PC Audio**.
3. Press ▶ and then press ▼ to select **No** or **Yes**.

   **Yes:** Outputs the sound from your PC.
   **No:** Mutes the sound from your PC, and outputs the sound from the HDMI connection.




***Note:*** *Because the PC IN and HDMI (DVI) IN inputs share the same set of analog audio inputs, the* ***PC Audio*** *menu setting influences the* ***HDMI 1 Audio*** *menu setting. If* ***PC Audio*** *is set to "No," the* ***HDMI 1 Audio*** *setting changes to "Auto." If* ***PC Audio*** *is set to "Yes," the HDMI Audio setting is set to "Digital" and is grayed out in the menu. (Also see item 4 on page 9 and "Setting the HDMI™ audio mode" on page 28.)*

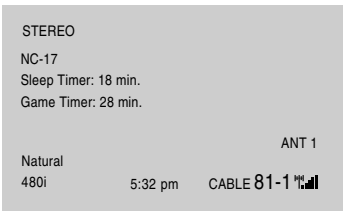
# Displaying TV status information using RECALL

**To display TV status information:**

Press RECALL on the remote control.

The following information will display (if applicable):

- Current input (**ANT 1**, **ANT 2**, **VIDEO 1**, etc.)
- If **ANT 1** or **ANT 2** is the current input, either "**CABLE**" (for cable TV) or "**TV**" (for over-the-air broadcasts).
- Channel number (if in **ANT 1** or **ANT 2** mode)
- Digital signal strength indicator (bar graph in lower right corner of screen; for ATSC signal only)
- Time (if set)
- On timer setting (if set)
- Remaining time on game timer (if set)
- Remaining time on sleep timer (if set)
- Stereo or SAP audio status
- V-Chip rating status
- Picture size
- Video resolution




Sample RECALL screen

**To close the RECALL screen:**

Press RECALL again.

# Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature functions in **ANT 1** and **ANT 2** modes only.

# Understanding the last mode memory feature

**If the power is cut off while you are viewing the TV, the Last Mode Memory feature automatically turns on the TV when the power is resupplied.**

***Note:*** *You should unplug the TV's power cord if it is possible that you will be away from the TV for an extended period of time after the power is restored. This will prevent the TV from turning on automatically in your absence.*

# Using the advanced picture settings features

## Using dynamic contrast

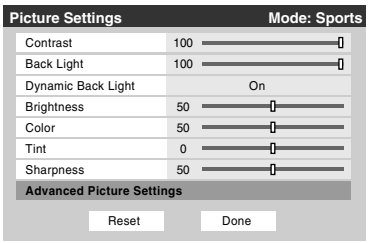
When dynamic contrast is set to **Low**, **Middle**, or **High**, the TV will detect changes in the picture quality that affect the appearance of your contrast settings and then automatically adjust the video.

### To select dynamic contrast preferences:

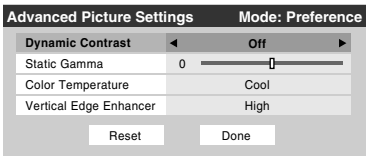
1 Press MENU and open the **Video** menu.

2 Highlight **Picture Settings** and press ENTER.

3 Highlight **Advanced Picture Settings** and press ENTER.




4 In the **Dynamic Contrast** field, select either **Off**, **Low**, **Middle** or **High**.




5 To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

***Note:*** *If the current picture mode is* ***Movie*** *(☞ page 41), when the dynamic contrast is set to Low, Middle, or High, the picture mode will automatically change to* ***Preference****.*

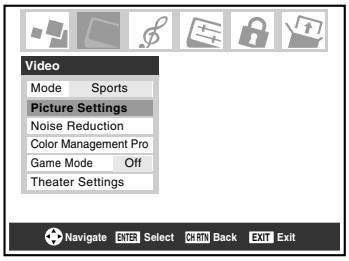
## Using the static gamma feature

The static gamma feature allows you to correct the levels of black in the picture.

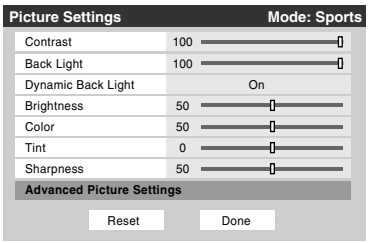
### To adjust the static gamma settings:

1 Press MENU and open the **Video** menu.

2 Highlight **Picture Settings** and press ENTER.

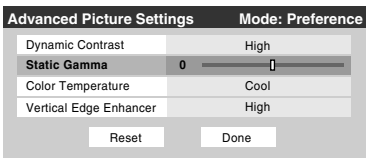



3 Highlight **Advanced Picture Settings** and press ENTER.




4 In the **Static Gamma** field, and then press ◀ or ▶ to adjust the static gamma.

The adjustment range is within ±5 from center.




- If the setting is moved in the minus direction, black colors will be submerged when they are raised.
- If the setting is moved in the plus direction, black colors will be raised when they are submerged.

5 To save the new settings, highlight **Done** and press ENTER. To revert the factory defaults, highlight **Reset** and press ENTER.

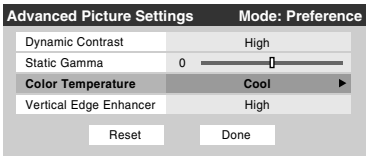
## Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures (cool, medium, and warm), as described below.

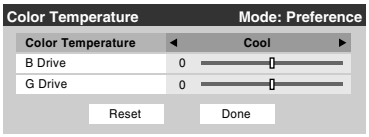
| Mode | Picture Quality |
|---|---|
| Cool | blueish |
| Medium | neutral |
| Warm | reddish |

### To select the color temperature:

1. Press MENU and open the **Video** menu.
2. Highlight **Picture Settings** and press ENTER.
3. Highlight **Advanced Picture Settings** and press ENTER.
4. Highlight **Color Temperature** and press ENTER.




5. In the **Color Temperature** field, select the mode you prefer (**Cool**, **Medium**, or **Warm**).




6. Press ▲ or ▼ to select either **B Drive** or **G Drive**, and then press ◀ or ▶ to adjust the settings.

- B Drive: ▶ makes the picture blueish.
- G Drive: ▶ makes the picture greenish.

***Note:*** *The **B Drive** and **G Drive** settings are connected to the **Color Temperature** settings and will change based on which is selected in step 5 above.*

7. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

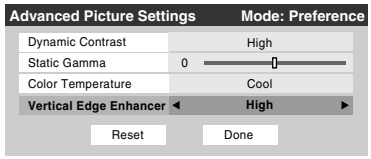
***Note:*** *If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change the color temperature mode, the picture mode automatically changes to **Preference**.*

## Using the Vertical Edge Enhancer feature

The Vertical Edge Enhancer feature strengthens video contour.

### To turn on the Vertical Edge Enhancer feature:

1. Press MENU and open the **Video** menu.
2. Highlight **Picture Settings** and press ENTER.
3. Highlight **Advanced Picture Settings** and press ENTER.
4. In the **Vertical Edge Enhancer** field, select the mode you prefer (**Off**, **Low**, **Middle**, or **High**).




5. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

***Note:***

- *Changing the setting of this item will cause the **Mode** to automatically change to **Preference**.*
- *When the input is changed to PC, this future is automatically set to **High** and grayed out in the menu.*

## Using CableClear® digital noise reduction

The CableClear® digital noise reduction feature allows you to reduce visible interference in your TV picture. This may be useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a noisy video cassette or disc.

### To change the CableClear settings:

1. Press MENU and open the **Video** menu.
2. Highlight **Noise Reduction** and press ENTER.

3. In the **CableClear** field, select your desired setting.

***Note:***

- *If the current input is **ANT 1**, **ANT 2**, **VIDEO 1**, or **VIDEO 2**, the menu will display the text "CableClear." The available selections are **Off**, **Low**, **Middle**, **High**, and **Auto**.*
- *If the current input is **ColorStream HD1**, **ColorStream HD2**, or **HDMI**, the menu will display the text "DNR." The available selections are **Off**, **Low**, **Middle**, **High**, and **Auto**. **Auto** will react proportionally to the strength of the noise. **Low**, **Middle**, and **High** will reduce the noise in varying degrees, from lowest to highest, respectively.*

4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

## Using MPEG noise reduction

The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression. Choices for MPEG noise reduction are **Off**, **Low**, **Middle**, and **High**. **Off** is automatically selected when this feature is disabled ("grayed out").

### To select the MPEG noise reduction level:

1. Press MENU and open the **Video** menu.
2. Highlight **Noise Reduction** and press ENTER.
3. Press ▲ or ▼ to highlight the **MPEG Noise Reduction** field, and then press ◀ or ▶ to select either **Off**, **Low**, **Middle** or **High**.

4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

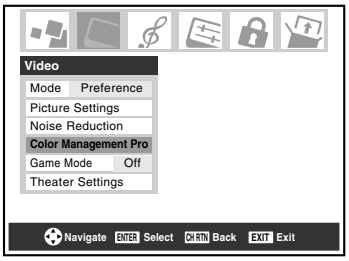
## Using the Color Management Pro feature

The new color management pro feature allows you to adjust standard colors as well as create 3 custom user colors. The menu will consist of 3 items: color management control, color palette adjustment, and reset.

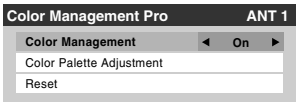
### Turning the Color Management Pro on:

1 Press MENU and open the **Video** menu.

2 Highlight **Color Management Pro** and press ENTER.




3 In the **Color Management** field, select **On**.




***Note:*** *If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then set the **Color Management Pro** to **On**, the picture mode automatically changes to **Preference**.*

### Turning Color Management off:

Select **Off** in Step 3 above.

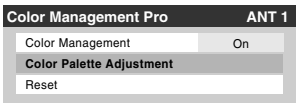
### To use the Color Palette Adjustment

When the color palette adjustment is selected, the list of base colors and user colors will be displayed. You can select a base color to adjust or choose to create a user color.

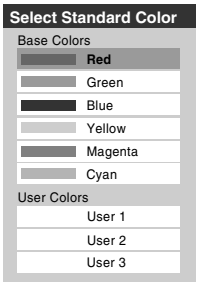
***Note:*** *To use the Color Palette Adjustment, the Color Management must be set to **On**.*

### To adjust the Base Colors:

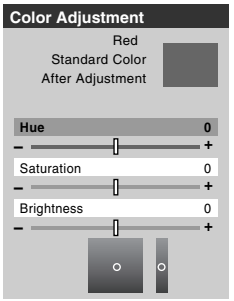
1 From the **Color Management Pro** menu, highlight **Color Palette Adjustment** and press ENTER.




2 The **Select Standard Color** window will be displayed. Press ▲ or ▼ to highlight the color you want to adjust, and then press ENTER.




3 The **Color Adjustment** window will be displayed. Press FREEZE to freeze the picture.
To return to the moving picture, press FREEZE again.




4 Press ▲ or ▼ to select either **Hue**, **Saturation**, or **Brightness**, and then press ◀ and ▶ to adjust the setting.

***Note:*** *Press A to return to the **Hue**, **Saturation**, and **Brightness** to their factory settings for the selected color.*

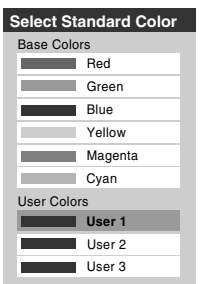
5 Press CH RTN to return to the previous menu.

6 Repeat steps 2 through 5 to adjust any other color.

### To adjust the User Colors:

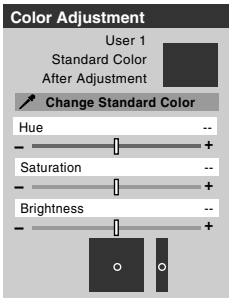
1 From the **Color Management Pro** menu, highlight **Color Palette Adjustment**, and then press ENTER.

2 The **Select Standard Color** window will be displayed. Press ▲ or ▼ to highlight either **User 1**, **User 2**, or **User 3** mode, and then press ENTER.



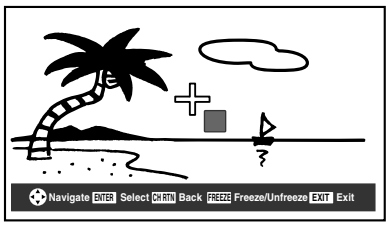

*(continued)*

**3** The **Color Adjustment** window will be displayed. Press ▲ or ▼ to highlight **Change Standard Color**, and then press ENTER.

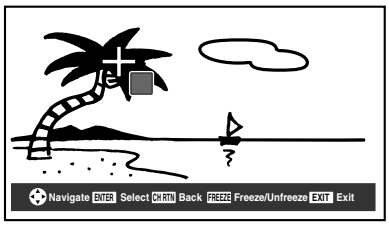



The video on- screen will automatically freeze and the cross hairs will appear on the video.

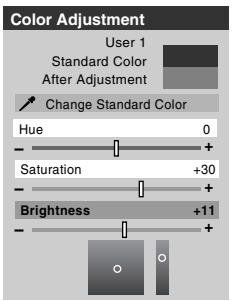
***Note:*** *The frozen video can be released at any time using* FREEZE.




**4** Press ▲▼◀▶ to move the cross hairs on the color you want to adjust, and then press ENTER.




**5** Press ▲ or ▼ to select either **Hue**, **Saturation**, or **Brightness**, and then press ◀ or ▶ to adjust the setting.



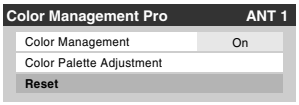

***Note:*** *You can reset the **Hue**, **Saturation**, and **Brightness** colors to "0" for any user color by pressing* A.

**6** Repeat step 5 for other items.

**7** Press EXIT.

### To reset the Color Management Pro to the factory set status:

**1** From the **Color Management Pro** menu, highlight **Reset**, and then press ENTER.




**2** The comfirming message appears. Highlight **OK**, and then press ENTER.

**3** Press EXIT.

## Using the Game Mode feature

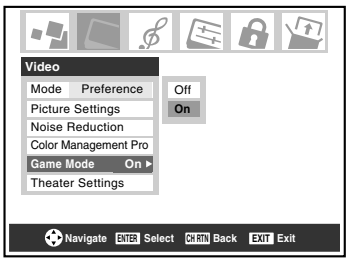
You can use the Game Mode feature for shorter frame delays when playing a video game requiring split-second timing between the on-screen display and input from the controller (such as music creation and high-action games).

***Note:*** *To use the Game Mode feature, the current video input must be **Video 1**, **Video 2**, **ColorStream HD1**, **ColorStream HD2**, **HDMI 1** or **HDMI 2**. The Game Mode cannot be turned on when any other video input is selected.*

### To turn on Game Mode:

**1** Press MENU and open the **Video** menu.

**2** Press ▲ or ▼ to highlight the **Game Mode** field, and then press ◀ or ▶ to select **On**.




### To turn off Game Mode:

Select **Off** in step 2 above, change the video input, or turn the TV off and then on again.

***Note:*** *You can change the video input in any of the following ways:*

- *Pressing INPUT on the remote control (☞ page 31).*
- *Changing the channel using the Numbers or CH ▲ / CH ▼, CH RTN, BACK ◀, NEXT ▶.*

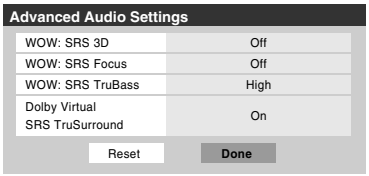
# Using the advanced audio settings features

## Using the SRS WOW™ surround sound feature

SRS WOW™ is a special combination of SRS Labs audio technologies (SRS 3D, SRS Focus, and SRS TruBass) that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

### To adjust the WOW™ settings:

1. Put the TV in **STEREO** mode (☞ "Selecting stereo/SAP broadcasts" on page 44).
2. Press MENU and open the **Audio** menu.
3. Highlight **Advanced Audio Settings** and press ENTER.
4. Press ▼ or ▲ to highlight the WOW feature you want to adjust, and then press ◀ or ▶ to adjust the item.




- WOW: SRS 3D — To turn the surround sound effect **On** or **Off**.

  ***Note:*** *If the broadcast is monaural, the SRS 3D effect will not work.*
- WOW: SRS Focus — To turn the vocal emphasis effect **On** or **Off**.
- WOW: SRS TruBass — To select the desired bass expansion level (**Off**, **Low**, or **High**).

5. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

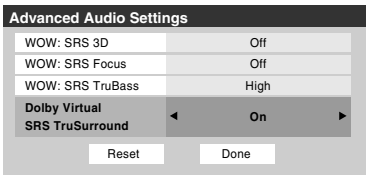
WOW, TruSurround, SRS and ◉ symbol are trademarks of SRS Labs, Inc.
WOW and TruSurround technologies are incorporated under license from SRS Labs, Inc.

## Using the virtual surround sound feature (Dolby® Virtual/SRS TruSurround™)

The Dolby Virtual/SRS TruSurround feature allows you to enjoy virtual surround sound from the TV's speakers.

### To turn on the Dolby Virtual/SRS TruSurround feature:

1. Press MENU and open the **Audio** menu.
2. Highlight **Advanced Audio Settings** and press ENTER.
3. In the **Dolby Virtual/SRS TruSurround** field, select **On**.




4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

### To turn off the Dolby Virtual/SRS TruSurround feature:

Select **Off** in step 3 above.

***Note:*** *The **Dolby Virtual/SRS TruSurround** and **WOW SRS 3D** features cannot be on at the same time. If you set one to **On**, the other will automatically be set to **Off**.*

The **Toshiba Home Interactive Network Connection** (**THINC**™) feature allows you to connect the TV to your home network, which will enable access to file sharing, personal e-mail, and e-mail scheduling features.

### File sharing

You can access JPEG and MP3 files that are stored on your networked home PC and view/play them on the TV.

***Note:*** *Requires a home network* (☞ Installation Guide). Does NOT require Internet/e-mail service.*

### Personal E-mail

Personal e-mail feature allows you to access your e-mail server through your TV. You may compose a new e-mail and view, reply and forward e-mails including e-mails with picture attachments (JPEG format only).

### E-mail scheduling of recordings and reminders

You can schedule recordings and reminders by sending an e-mail to the TV from any PC.

***Note:***

- *Requires a compatible recording device (☞ Installation Guide); a home network* (☞ Installation Guide); and home Internet service with a dedicated POP3 e-mail address for the TV (different from your personal e-mail address).*
- ***Contact your Internet Service Provider (ISP) to obtain and set up Internet/e-mail service.***
- ***You will NOT be able to access or browse the Internet through the TV.***

**Follow the steps in sections A through D (☞ pages 60–66) to set up and use the TV's home network features.**

* The THINC™ home network feature is compatible only with **Microsoft® Windows® 2000** and the **Home and Professional versions of Microsoft® Windows® XP Service Pack 1 and Service Pack 2**.
Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

## A. Connecting the TV to your home network

**1** **Connect the TV to your home network** via the TV's RJ-45 (Ethernet) port. See the *Installation Guide* for connection instructions.

**2** **If you want to use file sharing only and do not have Internet service in your home:**

Go to section B, "Setting up the network address," on the next page.

***Note:*** *If you do not have Internet service, you will not be able to use the personal e-mail and e-mail scheduling features.*

**If you want to use file sharing, personal e-mail, and e-mail scheduling:**

a) You must have Internet service in your home and a dedicated e-mail address for the TV (different from your personal e-mail address). Contact your ISP to obtain and set up Internet/e-mail service in your home.

b) After you have obtained Internet/e-mail service in your home (from your ISP), go to section B, "Setting up the network address" on the next page.

**For home network troubleshooting tips, see Chapter 8.**

**The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.**

# B. Setting up the network address

**To set up the network address:**

1 **First, try automatically setting up the network address** (below).

2 If the automatic setup is not successful, you can **either** retry the automatic setup (below) **or** try manually setting up the network address (☞ page 62).

***Note:***

- *If you used an Ethernet crossover cable to connect your PC directly to the TV, you will not be able to use the automatic setup, and must manually set up the network address.*
- *If you used a hub or switch to connect the TV to your home network, you will not be able to use the automatic setup, and must manually set up the network address.*
- *If you used a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.*

Router technology, like all new and emerging technology, may from time to time cause compatibility issues because of the differences in router systems implemented by the various router manufacturers; however, most issues can be easily resolved. If you think your Toshiba TV and router might have compatibility problems, please contact the following:

- **In the U.S.**, call TACP Consumer Solutions at **1-800-631-3811** or visit **http://www.tacp.com/customersupport/contact.asp**.
- **In Canada**, call TCL Customer Service at **1-800-268-3404** or visit **http://www.toshiba.ca**.

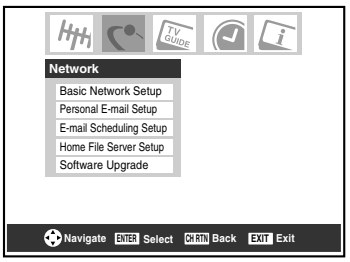
## Automatically setting up the network address

1 Press MENU and open the **Setup** menu.

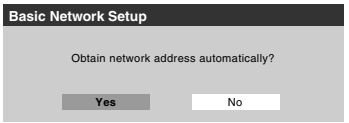
2 Highlight **Installation** and press ENTER. The **Installation** menu appears.

3 Open the **Network** menu.

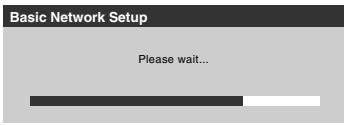
4 Highlight **Basic Network Setup** and press ENTER.




5 The message "Obtain network address automatically?" will display. Highlight **Yes** and press ENTER.



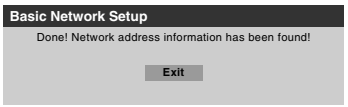

6 The message "Please wait…" will display while the TV is attempting to load the network address information from the DHCP server.




**If the automatic network address setup is successful, go to step 7.**

**If the automatic network address setup is not successful, go to step 8.**

7 If the automatic network address setup is successful, the following screen will appear:




a) Press ENTER to close the screen and return to the **Network** menu.

b) Skip to section C, "Setting up file sharing on your PC" (☞ page 63).

8 If the automatic network address setup is **not** successful, the following screen will appear:

a) Make sure all cables for your home network are securely connected.

b) Make sure your home network is set up properly. **See the Installation Guide for TV connection information. Also consult the owner's manuals for your other components.**

c) Make sure the DHCP and security settings on your home router are correct. **Consult the owner's manual for your router.**

d) Retry the automatic network address setup by following these steps:

(1) Highlight **OK** and press ENTER.

(2) Repeat steps 1–6. ***(If you have already repeated this setup process, go to step 9.)***

*(continued)*

**9 If, after repeating steps 1–6, you receive the error message shown in step 8:**

Either…

a) Highlight "**OK**" and press ENTER.

b) **Go to "Manually setting up the network address."**

Or…

a) Highlight "**OK**" and press ENTER.

b) **Continue to sections C, D, and E** (☞ pages 63–67) (to set up and use file sharing) **and/or to sections F, G, H, and I** (☞ pages 75–81) (to set up and use personal e-mail and e-mail scheduling).

**If the file sharing and/or personal e-mail and e-mail scheduling features work correctly,** then the automatic network address setup was successful (even though the TV displayed the error message).

## Manually setting up the network address

This setup requires the data listed below. **You can get this data from either your ISP or the configuration utility for your DSL/cable modem or router.**

*IP address:*

___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___

*Subnet mask:*

___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___

*Gateway (Router) address:*

___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___

*DNS (Domain Name Server) address:*

___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___

**1** Press MENU and open the **Setup** menu.

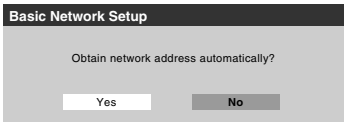
**2** Highlight **Installation** and press ENTER. The **Installation** menu appears.

**3** Open the **Network** menu.

**4** Highlight **Basic Network Setup** and press ENTER.

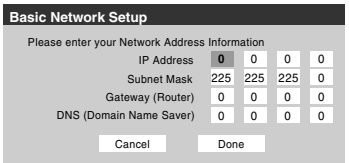
**5** The message "Obtain network address automatically?" appears.

Highlight **No** and press ENTER.




**6** The **Basic Network Setup** menu appears.

Press ▲ or ▼ to highlight the **IP Address** field, and then use the Number buttons on the remote control to input the IP address.




**7** Press ▼ to highlight the **Subnet Mask** field, and then use the Number buttons to input the Subnet Mask.

**8** Press ▼ to highlight the **Gateway (Router)** field, and then use the Number buttons to input the Gateway (Router) address.

**9** Press ▼ to highlight the **DNS (Domain Name Server)** field, and then use the Number buttons to input the DNS address.

**10** When finished, highlight **Done** and press ENTER.

The **Basic Network Setup** menu closes and the **Network** menu appears.

**11 Go to section C, "Setting up file sharing on your PC."**

## Resetting the network address

1 Press MENU and open the **Setup** menu.

2 Highlight **Installation** and press ENTER. The **Installation** menu appears.

3 Open the **Network** menu.

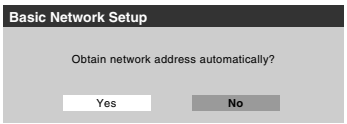
4 Highlight **Basic Network Setup** and press ENTER.

5 The message "Your Basic Network Setup is complete. Would you like to start over?" will appear.

To continue, highlight **Yes** and press ENTER.

To return to the **Network** menu, highlight **No** and press ENTER.

6 If you selected **Yes** in step 5, the message "Obtain network address automatically?" will appear.




To obtain the network address automatically, go to step 5 under "Automatically setting up the network address" (☞ page 61).

To manually enter the network address, go to "Manually setting up the network address."

**For home network troubleshooting tips, see Chapter 8.**

# C. Setting up file sharing on your PC

## Compatible operating systems

The following operating systems are compatible for file sharing with the TV:

- Microsoft® Windows® XP Service Pack 2 (Home Edition and Professional) [*See setup details below*]
- Microsoft® Windows® XP Service Pack 1 (Home Edition and Professional) [*See setup details below*]
- Microsoft® Windows® 2000 [*See setup details on page 65*]

No other operating systems are compatible with the TV.

***Note:***

- *The name of any directory/folder on your PC that you are setting up for file sharing with the TV cannot be longer than 12 characters and cannot contain any special characters.*
- *See "Media specifications" (☞ page 67) for details on compatible JPEG and MP3 files.*
- *The network (NETBIOS) name of your PC that you are setting up for file sharing must be 15 characters or less.*

### To determine which operating system and service pack (if applicable) are on your PC:

1 On your PC, click the "Start" button.

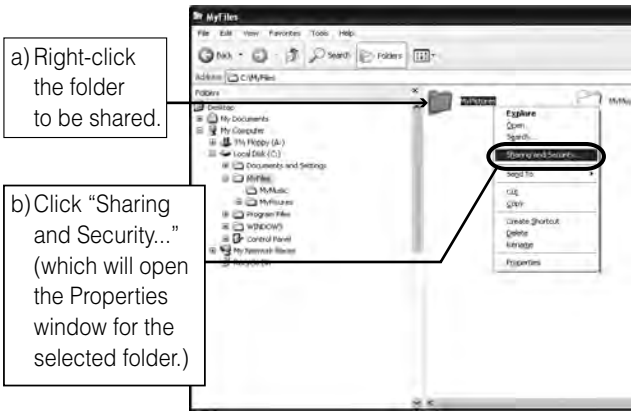
2 Click "Settings | Control Panel."

3 In the Control Panel, double-click "System."

4 Select the "General" tab, which will display your PC's current operating system and service pack.

## Setting up file sharing on a PC with Microsoft® Windows® XP Service Pack 1 or Service Pack 2

1 On your PC:




* Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.

*(continued)*

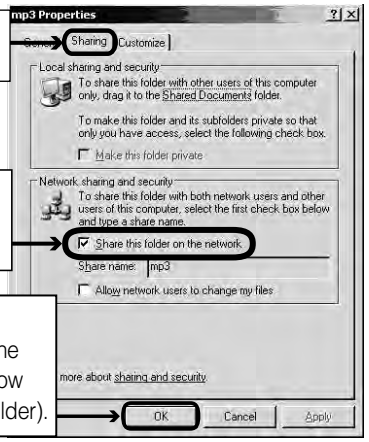
**2** If the "Sharing" tab on your PC does not have a "Permissions" button, follow step 2.1 below.
If the "Sharing" tab on your PC has a "Permissions" button, follow step 2.2 below.

**2.1**

a) Click to display the "Sharing" tab.

b) Click to select "Share this folder on the network."

c) Click "OK" (which will close the Permissions window for the selected folder).



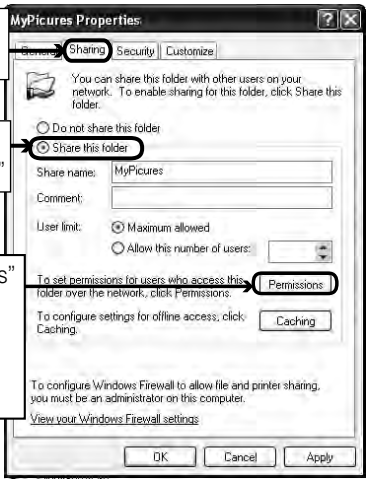

Go to section D, "Setting up file sharing on the TV," on page 66.

**2.2**

a) Click to display the "Sharing" tab.

b) Click to select "Share this folder."

c) Click "Permissions" (which will open the Permissions window for the selected folder).




Go to step 3.

**3** In the Permissions window for the selected folder:

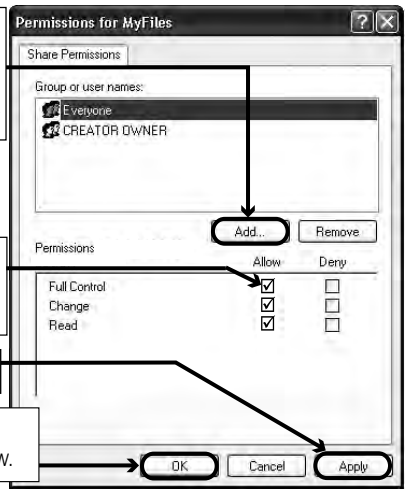
a) Click "Add..." and then select the user to be given sharing privileges.*

*This user must match the user stored in the TV's "Home File Server Setup" menu.

b) Click to check "Allow" next to "Full Control."

c) Click "Apply."

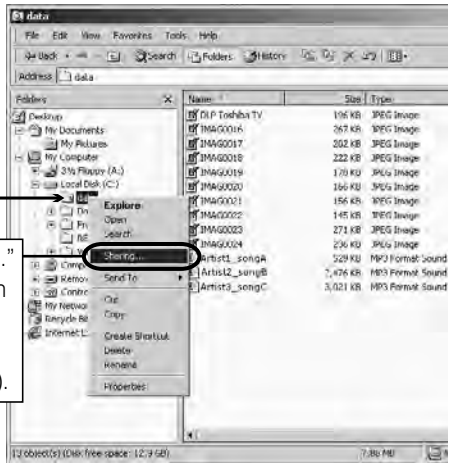
d) Click "OK" to close the window.



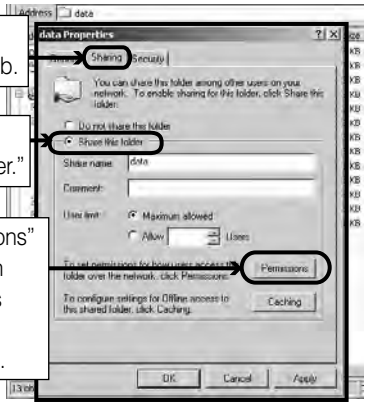

**4** Go to section D, "Setting up file sharing on the TV," on page 66.

## Setting up file sharing on a PC with Microsoft® Windows® 2000

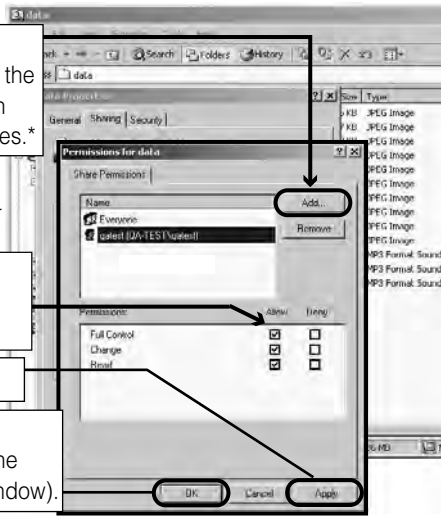
**1** On your PC:



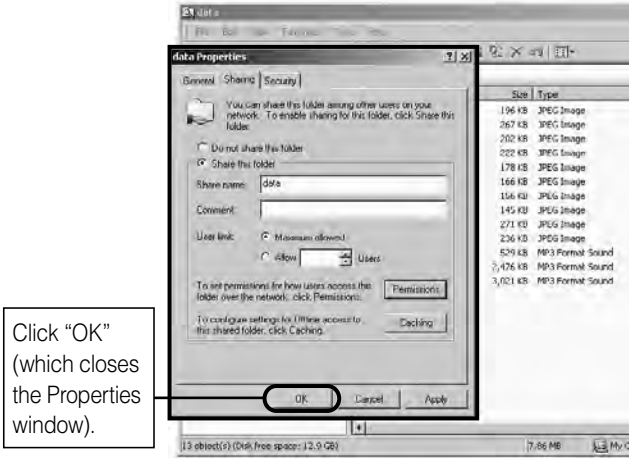

**2** In the Properties window for the selected folder:



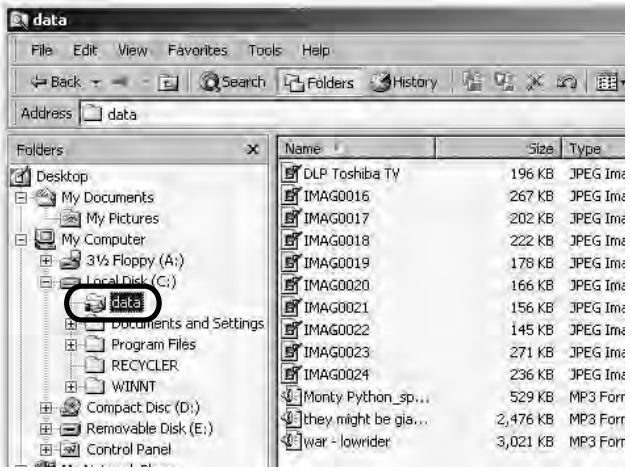

**3** In the Permissions window for the selected folder:




**4** In the Properties window:




**5** The shared folder will display with a "shared folder" icon (a hand holding a folder).



**6** Go to section D, "Setting up file sharing on the TV," on the next page.

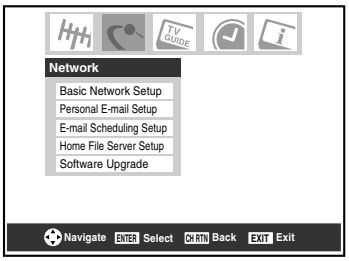
**For home network troubleshooting tips, see Chapter 8.**

# D. Setting up file sharing on the TV

**1** Press MENU and open the **Setup** menu.

**2** Highlight **Installation** and press ENTER. The **Installation** menu will appear.

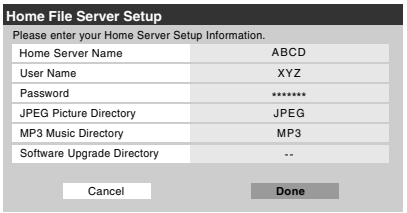
Open the **Network** menu.




**3** Highlight **Home File Server Setup** and press ENTER. The **Home File Server Setup** window will appear.

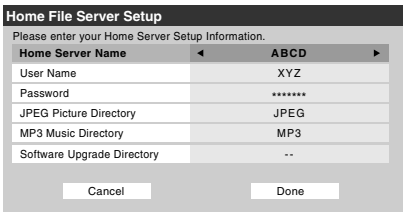
After a few moments, the message "Please Wait..." will appear until the network finds your networked PC.

The networked PC will act as the "Home Server" for file sharing with the TV.




**4** Press ▲▼ to highlight **Home Server Name**, and then press ◀▶ to select the name of the PC you set up for file sharing.

If you have multiple PCs on your home network that have shared folders, press ◀▶ to select the PC (home server) from which you want to access files.




**5** a. Press ▲▼ to highlight **User Name** and then press ENTER to open the software keyboard for that field.

b. Enter the User Name for your PC using the software keyboard. See "Using the software keyboard" on the next page.

***Note:*** *The **User Name** is case sensitive.*

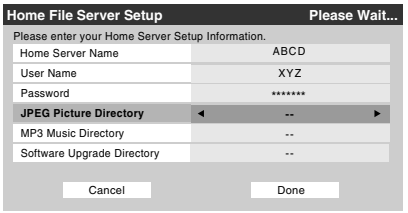
c. When finished entering all characters, highlight **Done** and press ENTER.

**6** Repeat step 5 for the **Password** field.

***Note:*** *The **Password** is case sensitive.*

**7** Press ▲▼ to highlight either **JPEG Picture Directory** or **MP3 Music Directory**.

***Note:*** *The first time you highlight either of these fields, the message "Please Wait..." will appear until the field is populated with the files in your PC's shared folder(s).*




**8** Press ◀▶ to select the shared folder (on your PC) that contains the JPEG and/or MP3 files you want to view/play on the TV.

***Note:*** *Make sure you select the correct folder in this step.*

**9** To exit the window and save your settings, highlight **Done** and press ENTER.

To exit the window without saving your settings, highlight **Cancel** and press ENTER.

## Using the software keyboard

a) Press corresponding button on the remote control repeatedly to highlight the alpha-numeric character you desire.

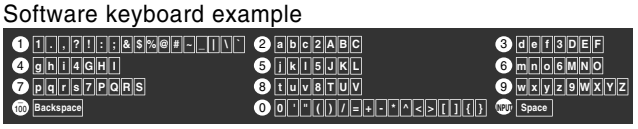
For example, each time you press abc 2, the alpha-numeric character will change in the following order:

a → b → c → 2 → A → B → C

b) The highlighted character will be entered after you either begin to enter another character using ANOTHER button, press ▶, or after a 2 second pause.

c) Repeat steps a) and b) until you have entered all the text you desire.

Software keyboard example




d) Press CH RTN to close the software keyboard and return to the previous screen.

### Example of entering text

To type 'Hello 123', enter the following key sequence:

| H | e | l | | l | o | (space) | 1 | 2 | 3 |
|---|---|---|---|---|---|---|---|---|---|
| ghi 4 | def 3 | jkl 5 | ▶ | jkl 5 | mno 6 | INPUT | .,?! 1 | abc 2 | def 3 |
| 6 times | twice | thrice | | thrice | thrice | | once | 4 times | 4 times |

Help instructions are provided in the display. They include specific remote control button instructions which are applicable in certain views. Such as, ▲PAGE / PAGE▼ = scrolling up and down. ⏮ and ⏭ = home and end of lines. ENTER = new line. EXIT = Exits entire screen and will not save entries.

## About the Software Upgrade feature

This feature allows you to download software updates to your television from a shared folder on your home network.
If you experience any difficulties that can only be resolved by a software update, your Toshiba customer service representative will provide you with the appropriate upgrade files and assist you in the proper use of this feature.

# E. Viewing/playing shared files on the TV

You can use the **Picture Viewer** to view compatible JPEG-format photos on the TV.

You can use the **Audio Player** to play compatible MP3 files on the TV.

The TV can access JPEG and/or MP3 files stored on a networked PC (as described on pages 68–70 in this Guide and also in the *Installation Guide*).

***Note:***

- *If you are viewing/playing files stored on a networked PC, IT IS RECOMMENDED THAT YOU BACK UP YOUR DATA. Toshiba is not liable for any damage caused by the use of any networked PC or shared files with this TV. Toshiba will not compensate for any lost data or recording(s) caused by the use of such PCs or data.*
- *The technical criteria set out in this manual are meant as a guide only.*
- ***You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.***

## Media specifications

### File/folder name specifications

– **Maximum file name length:** 255 characters.
– **Maximum shared folder* name length:** 12 characters.
– **File names must contain** US-ASCII characters only.
– **File and folder names cannot contain** any special characters, such as \ / : ? " " < > | .

* The words "folder" and "directory" are used interchangeably.

### Picture Viewer/JPEG file specifications

– **Maximum JPEG file size:** 8 MB
  - *JPEG files larger than 8 MB will not display.*
– **Maximum JPEG image resolution:** 6000 × 4000 pixels
  - *Images with a resolution higher than 6000 × 4000 pixels will not display.*
– **The Picture Viewer is designed to display** only pictures stored in compatible JPEG formats with a file extension of ".jpg."
– **JPEG images processed and/or edited on a personal computer (PC)** may not display properly or at all.
– Some digital cameras may store images in a format that is not compatible with the TV.
– **JPEG files stored on a networked PC that are not in a file and folder format compatible with the TV will not display on the TV.**

*(continued)*

### Audio Player/MP3 file specifications

– **Maximum MP3 file size:** 50 MB
  • *MP3 files larger than 50 MB will not play.*
– **The Audio Player is designed to play** only music files stored in compatible MP3 formats with a file extension of ".mp3."
– **MP3 files processed and/or edited on a PC** may not play properly or at all. Some MP3 files may be in a format that is not compatible with the TV.
– **MP3 files must be in the following format:**
  • MPEG1 (ISO/IEC 11172-3) Layer3.
  • Sampling frequency—MPEG1: 32 kHz, 44.1 kHz, 48 kHz.
  • Bitrate—MPEG1: 32–320 kbps.
  • Channels—Stereo, Joint stereo, Dual channel, Single channel.
  • ID3 Ver. 1, Ver. 2.
– **The meta-data for MP3 files** (artist name, album name, song title, etc.) must be in the following format:
  ISO-8859-1 (US-ASCII/ Western European) character sets
– **MP3 files stored on a networked PC that are not in a file and folder format compatible with the TV will not play on the TV.**

### Networked PC specifications

**Maximum number of files per shared folder:**
– JPEG = 1,000
  • *All JPEG files over the 1,000th in a shared folder will not display.*
– MP3 = 200
  • *All MP3 files over the 200th in a shared folder will not play.*

**Maximum number of nested folder levels:** 10 levels
• Files in folders more than 10 levels down from the top level folder will not display/play.
• See pages 60–66 for details on networking your TV and PC for file sharing.

## Using the Picture Viewer

You can use the TV's **Picture Viewer** to display your digital photos (JPEG files) on your TV's screen in thumbnail mode or as a slide show.

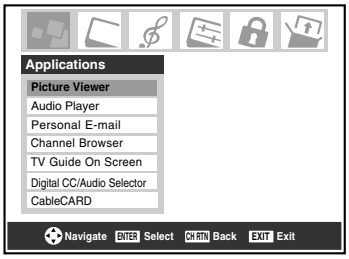
***Note:***
• *You cannot use the **Picture Viewer** and **Audio Player** at the same time.*
• ***You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.***

### Accessing JPEG files stored on a networked PC

**1** Make sure you have correctly set up your home network and file sharing (☞ pages 60–66 in this Guide; also see the *Installation Guide*).

**2** Press MENU and open the **Applications** menu.

**3** Highlight **Picture Viewer** and press ENTER.




If the network is available, it will retrieve the JPEG picture list via the network.

**4** Press ▲ or ▼ to access the folder or directory that contains the JPEG pictures you want to view.

To expand a particular folder to view a list of images, press ▶ on the folder.

To close the folder or directory, press ◀ on the folder.

Pressing ◀ on a file will move the focus up to the folder that contains the file.

Pressing ▶ on a file will move the focus down to the next folder.

If you press ENTER on a particular folder, the first file in the folder will be displayed as the first file in the thumbnail list.

If you press ENTER on a particular file, that file will be displayed as the first file in the thumbnail list.

***Note:*** *You can use CH RTN to toggle between the thumbnail and folder views. The last item selected will be highlighted upon return to the Picture Viewer.*

## Viewing JPEG files on the TV

1 After accessing your JPEG files from your networked PC (☞ page 68), the images automatically display on-screen, with one as a large picture and six in thumbnail format.

2 Press ◀ to rotate the large picture 90° counterclockwise.

3 Press ▶ to rotate the large picture 90° clockwise.

4 Press ▲ or ▼ to select another picture as the large picture.

5 Press ENTER to view your pictures in a slide show.

### During the slide show:

- To stop on an image during the slide show, press ENTER.
- To resume the slide show, press ENTER again.
- To rotate the picture, press ◀ or ▶.
- To select another image, press ▲ or ▼.
- To stop the slide show and return to the picture viewer, press CH RTN.
- To stop the slide show and return to the regular TV screen, press EXIT.

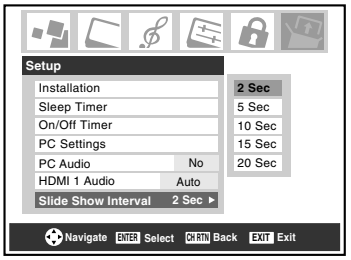
### To set the slide show interval:

1 Press EXIT to close the **Picture Viewer** (if it is open).

2 Press MENU and open the **Setup** menu.

3 Highlight **Slide Show Interval** and press ENTER.

4 Select the interval from the menu sidebar (2, 5, 10, 15, or 20 seconds).




### To view your JPEG files in Native Resolution mode:

Press CH▲ or CH▼ during the slideshow. This will expand the image to its non-compressed format.

Press RECALL to display a help bar that will show how to scroll to the edges of the image using the ▲▼ ◀ ▶ buttons.

To exit Native Resolution and return to the normal slideshow, press ENTER.

To return to the thumbnail view, press either EXIT or CH RTN. If an image is too large to display in Native Resolution mode (6MB), a warning message will display.

### To close the Picture Viewer:

Press EXIT to close the **Picture Viewer** and return to the regular TV screen.

# Using the Audio Player

You can use the TV's **Audio Player** to listen to MP3 files on the TV.

***Note:***

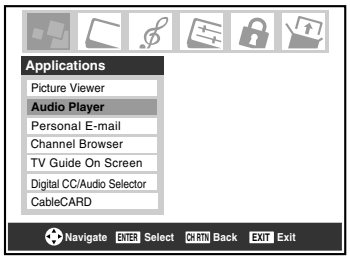
- *Make all desired adjustments to the TV's audio features (e.g., surround, bass, treble, balance) before starting the **Audio Player**.*
- *You cannot use the **Picture Viewer** and **Audio Player** at the same time.*
- ***You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.***

## Playing MP3 files stored on a networked PC

**1** Make sure you have correctly set up your home network and file sharing (☞ pages 60–66 in this Guide; also see the *Installation Guide*).

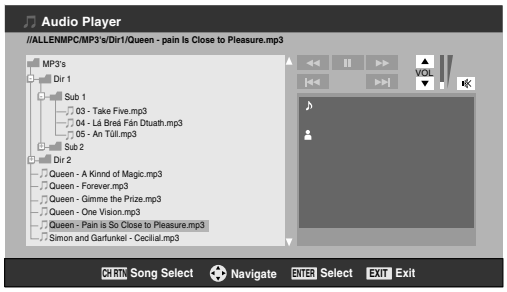
**2** Press MENU and open the **Applications** menu.

**3** Highlight **Audio Player** and press ENTER.




If the network is available, the TV will retrieve the MP3 file through the network.

**4** Press ▲ or ▼ to access the folder or directory that contains the MP3 files you want to play.




To expand a particular folder to view a list of images, press ▶ on the folder.

To close the folder, press ◀ on the folder.

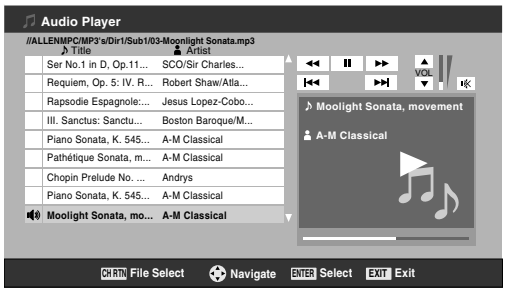
Pressing ◀ on a file will move the focus up to the folder which contains the file.

Pressing ▶ on a file will move the focus down to the next folder.

If you press ENTER on a particular folder, the first file in the folder will display as the first file in the list in song select view.

If you press ENTER on a particular file, that file will display as the first file in the list in song select view.

***Note:*** *You can use CH RTN to toggle between the thumbnail and folder. The last item selected will be highlighted upon return to the Audio Player.*




**5** The **Audio Player** will begin playing the first MP3 file in the list. Press ▲▼◀▶ to navigate to the rewind, pause, fast forward, skip backward, skip forward, volume, and mute buttons—or to select another MP3 file—and then press ENTER.

### To adjust or mute the volume:

Press VOL+ VOL− or MUTE on the remote control (see page 43 for details on muting the sound), or press ▲▼ ◀▶ to navigate to the on-screen VOL and MUTE (🔇) buttons and press ENTER.

### To close the Audio Player:

Press EXIT to close the **Audio Player** and return to the regular TV screen.

# F. Setting up Personal E-mail

The Personal E-mail Setup will allow up to 4 users to set up profiles from which each profile may access their e-mail account.

## Required information and services

Before you can set up the personal e-mail feature, you must have the following information and related services:

a) A valid POP3 e-mail account which you normally use to receive e-mails.

b) Login and password settings for above.

c) Name or IP address of the incoming (POP3) mail server.

d) Name or IP address of the outgoing (SMTP) mail server.

**To obtain the required e-mail services listed above, contact your ISP.**

**To obtain the required addresses and settings listed above, either contact your ISP or use the configuration utility for your DSL/cable modem or router.**

***Note:*** *If you set up any personal e-mail accounts on the TV, any person with access to the TV will be able to read mail from all of those accounts. If you connect the TV to the internet, any person with access to the TV will be able to configure the TV to access e-mail accounts for which they have account access information (user name, password and server addresses). You should consider these factors in deciding whether to set up personal e-mail accounts and whether to keep the TV set connected (or make available easy connection) to the internet.*

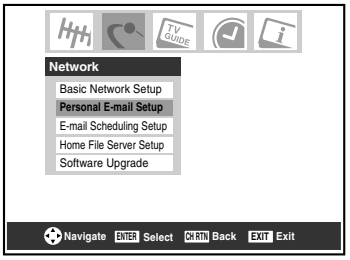
## Setting up personal e-mail

**1** Press MENU and open the **Setup** menu.

**2** Highlight **Installation** and press ENTER. The **Installation** menu appears.

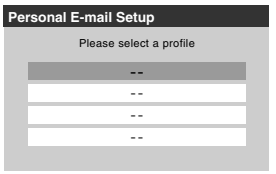
**3** Open the **Network** menu.

**4** Highlight **Personal E-mail Setup** and press ENTER.



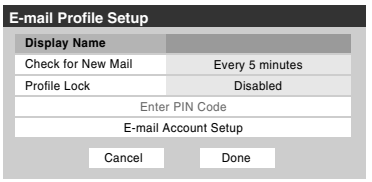

**5** The **Personal E-mail Setup** window appears.

Press ▲ or ▼ to highlight one of the blank profiles and press ENTER.



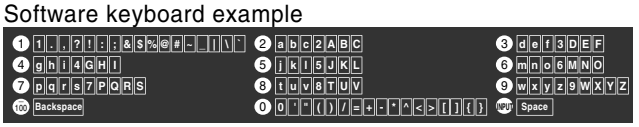

***Note:*** *If profiles have already been created, you can select a profile and make updates/changes to the personal information.*

**6** The **E-mail Profile Setup** window will appear.




Highlight **Display Name** field and press ENTER, the pop-up software keyboard will appear.

Software keyboard example




Enter the display name using this software keyboard. See "Using the software keyboard" (☞ page 67) for instructions on entering data in the fields using the software keyboard.

**7** Press ▼ to highlight **Check for New Mail**, then press ◀ or ▶ to select your desired setting.

- E-mail checking duration (Off, 5 min, 10 min, 15 min, 30 min, 60 min, 120 min). When the check for new mail duration is set to **Off**, the new e-mail notifications will not appear.

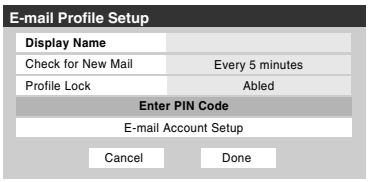
*(continued)*

**8** You can choose to protect your profile settings and to secure your e-mail from other TV user by activating PIN code protection for the account.

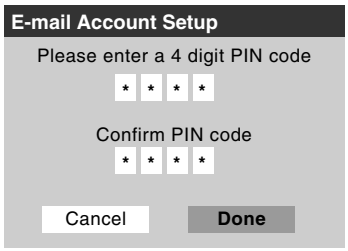
**If you want to activate PIN code protection:**

a) Press ▼ to highlight **Profile Lock** field, then press ◀ or ▶ to select **Abled**.

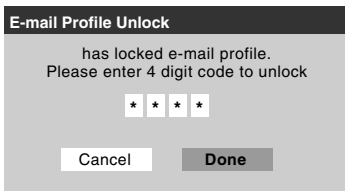
b) Highlight **Enter PIN Code** field and press ENTER.




c) Press Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press ENTER.

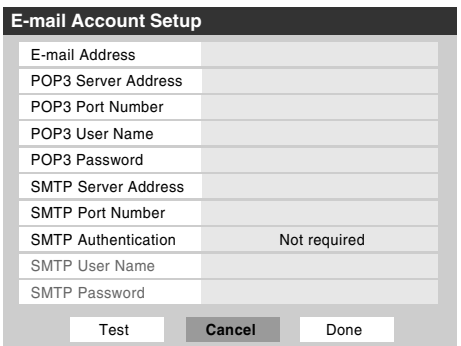



***Note:*** *If the profile is being locked,* ***E-mail Profile Unlock*** *window will appear. You can unlock the account by entering the four-digit PIN set. Without the correct PIN, the account will not be accessible.*




*If you cannot remember your PIN code, while the* ***E-mail Unlock Profile*** *window is displayed, press recall four (4) times within five (5) seconds. The PIN code will be cleared and you can enter a new PIN code.*

**9** Highlight **E-mail Account Setup** field, and press ENTER. The **E-mail Account Setup** window appears.




**10** Highlight a particular field and press ENTER. The pop-up software keyboard will appear as shown in step 6.

***Note:*** *The pop-up software keyboard will change based on the buttons that are available for the current item.*

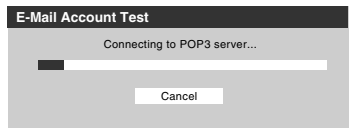
Using the pop-up software keyboard, enter the appropriate information in the fields.

- E-mail Address
- POP3 Server Address
- POP3 Port Number: Uses to default if left blank
- POP3 User Name: this is e-mail account login
- POP3 Password: password
- SMTP Server Address
- SMTP Port Number: Uses to default if left blank

See "Description of fields in the E-mail Account Setup window" (☞ page 78) for details on the settings for these fields.

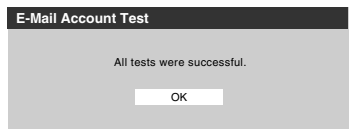
**11** Highlight **Test** and press ENTER to confirm the e-mail account settings work correctly.

During testing, the TV will display the following message.

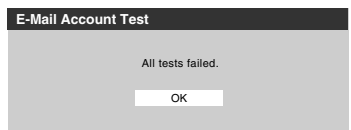



**12** When testing is finished, a message will appear indicating whether the e-mail account test passed or not.

**If the e-mail account test is successful:**




**If the e-mail account test failed:**




**13** Press ENTER.

**14** To exit the window and save your settings, highlight **Done** and press ENTER.

To exit the window without saving your settings, highlight **Cancel** and press ENTER.

# G. Using the Personal E-mail

The Personal E-mail feature allows you to:

1) Create new e-mails
2) View and reply to received messages
3) Forward received messages
4) View attached JPEG files (*Users will not be able to attach files to messages that they send.)

In addition, multiple user accounts can be created (up to 4 users). These profiles can be PIN (☞ page 71) protected to prevent unwanted activity.

Access to this feature will be available from several different windows.

- By selecting **Personal E-mail** from the **Applications** menu.
- By bringing up the **THINC** menu and selecting **Personal E-mail.**
- By pressing ENTER when the "unread e-mail notification" appears (see below).

## Unread E-mail Notification

The envelope notification will appear at the bottom right hand corner of the screen when the TV detects unread e-mail in a user's inbox. It will show the user's name and number of unread messages.

***Note:***

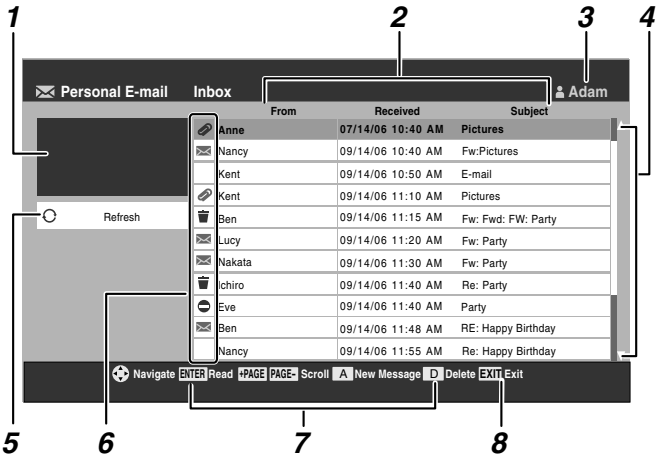
- *The frequency at which the system checks for unread messages can be controlled by the user from the item "Check for New Mail" in the* **E-mail Profile Setup** *menu (☞ page 71).*
- *This message will not be displayed while other applications such as* **Picture Viewer**, **Audio Player**, *etc. are running.*
- *This message will not be included in any video recorded from the TV using the video outputs.*

Press ENTER while the unread e-mail is displayed to open the Inbox View.

You can dismiss the unread e-mail notification and continue watching TV by pressing EXIT.

## E-mail Inbox

You can bring up the inbox view by pressing ENTER while the unread e-mail icon is being displayed. From the inbox view, you can view a list of e-mails received with unread messages denoted by an envelope icon.




***1*** **PIP window**

As a special feature, you can continue viewing the current channel through a PIP (picture-in-picture) window that will be provided on the LEFT-hand side of the inbox view. (You can change channels in the PIP window by pressing CH▲ / CH▼ on the remote control unless the TV is currently recording.)

***2*** **From** and **Subject** information will be shown for each message.

***3*** **User name**

***4*** **Scroll arrows**

You can scroll down through additional messages one-by-one using ▲ ▼ or page-by-page using +PAGE / PAGE-. Up to 100 messages can be accessed in the inbox.

***5*** (**Refresh**) button will remove messages marked for deletion and check for newly arrived messages.

***6*** Various icons will convey information about messages in the Inbox.

(**Trash Can**) mark will indicate that a message has been marked for deletion. To mark a message for deletion, you will select the message and press D. To remove the delete mark, you can press D again.

A purple envelope will indicate that a message is new and has not yet been viewed. After viewing, the envelope will disappear.

A paperclip will indicate that a message has a jpeg attachment.

A red "No Entry" sign will indicate that the size of a message is too large and it cannot be opened. The maximum allowable message size is 300 KB.

*(continued)*

### *7* Read, New Message, Delete

From the inbox view, you can reply to messages, forward messages, delete messages, or create new messages by pressing the appropriate buttons as shown in the guide at the bottom of the screen. You cannot add attachments to an outgoing e-mail, but you may forward an e-mail that includes attachments.

***Note:*** *If you delete an e-mail on the TV, it will also be deleted from the e-mail server identified in the account setup–even if the message indicates that it cannot be read by the TV.*

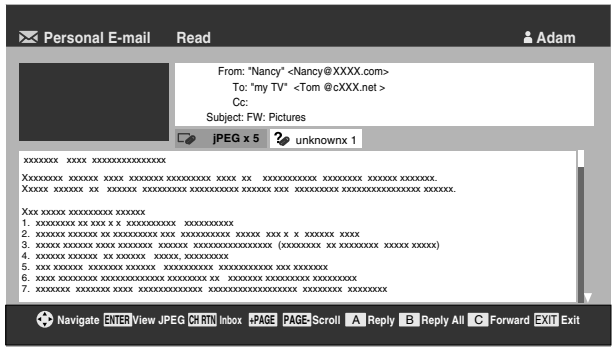
### *8* Exit

Pressing EXIT at any time will always close the Personal E-mail and return to the regular TV screen on the last channel viewed.

## Read View

### To read mail:

From the E-mail Inbox window, select the mail you want to read and press ENTER. The read view shown below will appear.




From the read view, you can scroll up and down to view the entire message by using ▲ ▼.

If you wish to reply to the current message, press A. If the e-mail has more that one recipients, press B to reply to all (attachments will be discarded). To forward an e-mail to other recipients, press C (attachments will be included).

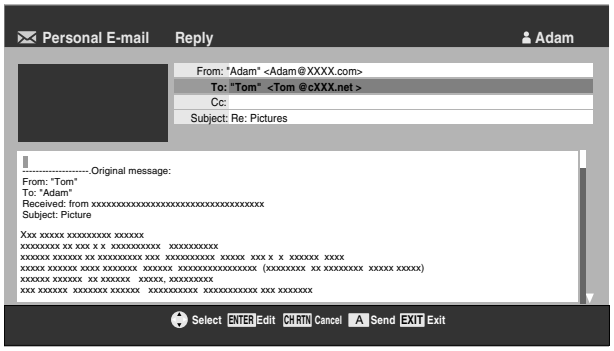
When a JPEG attachment is present, you can view this from the Picture Viewer. Highlight the JPEG attachment icon and press ENTER.

To return to the Read View from the Picture Viewer, press EXIT. To return to the Inbox View from the Read view, press CH RTN.

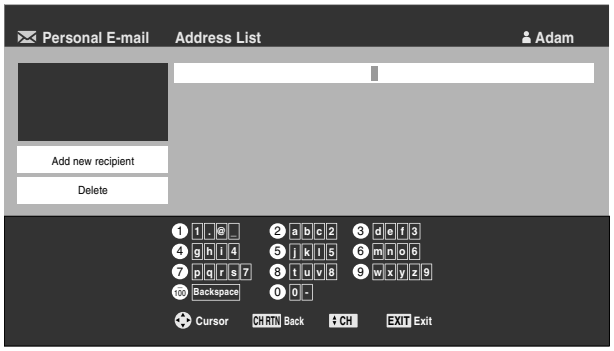
Pressing EXIT at any time will always close the Personal E-mail and return to the regular TV screen on the last channel viewed.

## Message editing views

When composing an e-mail, you can move through the fields (To, from, Cc subject) with ◀▶▲▼ on your remote, and edit those fields by pressing ENTER. From the Read View, you can reply or forward that message (☞ page 74), and the screen will enter message editing view.




When sending messages to more than one recipient, you must enter the "To" or "Cc" field and choose, "Add new recipient." To delete a recipient, highlight it, then immediately highlight the Delete button using ◀ on your remote control and press ENTER.




# H. Setting up e-mail scheduling

You can remotely schedule and delete recordings and reminders by sending an e-mail to the TV from any PC.

***Note:***

- *If you have not already done so, follow the instructions in sections A and B (☞ page 60), before proceeding.*
- *Before you can schedule recordings, the time and date in the TV Guide On Screen feature must be set (☞ "Setting the time and date" on page 28).*

## Required information and services

Before you can set up the e-mail scheduling feature, you must have the following information and related services:

a) A valid POP3 e-mail address dedicated for use by the TV only.

***Note:*** *The e-mail address assigned to the TV must be a dedicated POP3 address, different from your personal e-mail address. Assigning your personal e-mail address to the TV will eventually lead to the deletion of all of your personal e-mails (including attachments). This is NOT covered under the Toshiba warranty.*

b) A personal e-mail address (different from the TV's dedicated e-mail address) from which you can send e-mails to the TV.

c) Login and password settings for the TV's POP3 e-mail account.

d) Name or IP address of the incoming (POP3) mail server.

e) Name or IP address of the outgoing (SMTP) mail server.

**To obtain the required e-mail services listed above, contact your ISP. You may also be able to use the "home page" or "configuration portal" supplied by your ISP to configure additional e-mail accounts."**

**To obtain the required addresses and settings listed above, either contact your ISP or use the configuration utility for your DSL/cable modem or router.**

***Note:***

- ***Toshiba is not responsible for any damage or loss caused directly or indirectly by the failure of the e-mail scheduling feature to record content intended to be recorded.***
- ***Toshiba is not responsible for, nor has any control over, any content recorded and/or viewed using the e-mail scheduling feature. Further, the e-mail scheduling feature is not meant to be used for unauthorized recording and/or viewing of copyrighted works.***
- ***The recording, use, distribution or revision of television programs, videotapes, DVDs and other materials in violation of applicable laws (including copyright law) and/or agreements may subject you to criminal and civil liability.***

**For home network troubleshooting tips, see Chapter 8.**

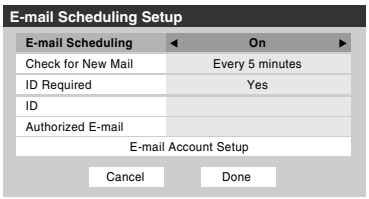
## Setting up e-mail scheduling

1 Press MENU and open the **Setup** menu.

2 Highlight **Installation** and press ENTER. The **Installation** menu appears.

3 Open the **Network** menu.

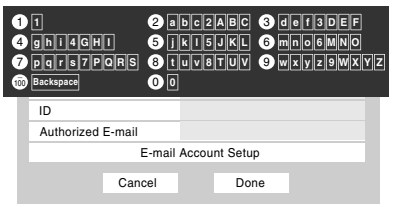
4 Highlight **E-mail Scheduling Setup** and press ENTER. The **E-mail Scheduling Setup** window opens.




5 Enter the required data in the fields.

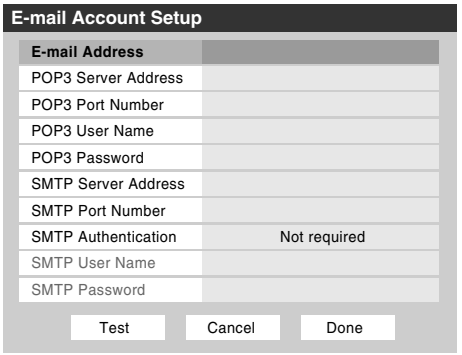
See "Description of fields in the E-mail Scheduling Setup window" (☞ page 77) for details on the settings for these fields.

- For the fields listed below, press ▲ or ▼ to highlight the field, and then press ◀ or ▶ to select the settings:
  - **E-mail Scheduling: On** or **Off**
  - **Check for New Mail:** Options are 5 min, 15 min, 30 min and 1 hour.
  - **ID Required: Yes** or **No**
- For the fields listed below, press ▲ or ▼ to highlight the field, press ENTER to open the software keyboard window for the selected field, and then enter the required information using the software keyboard:
  - **ID**
  - **Authorized E-mail**




See "Using the software keyboard" (☞ page 67) for instructions on entering data in the fields using the software keyboard.

6 Highlight **E-mail Account Setup**, then press ENTER. The **E-mail Account Setup** window will appear.




7 Enter the data in the fields as you did in step 5. See "Description of fields in the E-mail Account Setup window" (☞ page 78) for details on the settings for these fields.

Press ▲ or ▼ to highlight the field, press ENTER to open the software keyboard window for the selected field, and then enter the required information using the software keyboard:

- E-mail Address
- POP3 Server Address
- POP3 Port Number
- POP3 User Name
- POP3 Password
- SMTP Server Address
- SMTP Port Number
- SMTP Authentication
- SMTP User Name
- SMTP Password

8 When you are finished entering all characters for the selected field, highlight **Test** and press ENTER to test the e-mail setup.

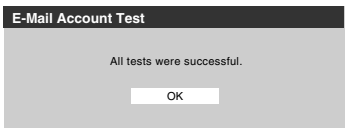
During testing, the TV will display the E-Mail Account Test window.

***Note:*** *Depending on your configuration, the e-mail test can take several minutes. Do not press EXIT during this time.*

9 When testing is finished, a message will appear indicating whether the e-mail test passed or not.

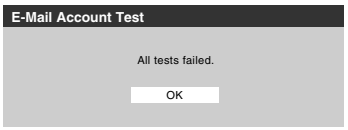
**If the e-mail test passes:**

The "All tests were successful" message (shown below) will appear.



**If the e-mail test does not pass:**

a) An error message and code will appear on-screen (similar to the example below).




b) Make sure you entered the correct information for the fields in the E-mail Account Setup window. Repeat steps 7-8.

**10** To exit the **E-mail Scheduling Setup** window and save your settings, highlight **Done** and press ENTER.

To exit the **E-mail Scheduling Setup** window without saving your settings, highlight **Cancel** and press ENTER.

**IMPORTANT NOTE**

**To use e-mail scheduling, you must first set up the TV Guide On Screen™ system.** E-mail scheduling will not be available unless the TV Guide On Screen™ system is fully operational. **See the separate *TV Guide On Screen™ Interactive Program Guide* for details on setting up the TV Guide On Screen™ system.**

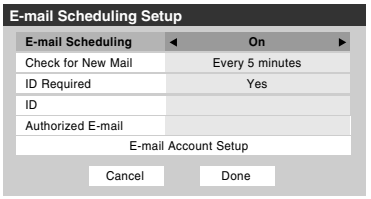
If you experience any issues with e-mail scheduling, please contact the following:

- **In the U.S.**, call TACP Consumer Solutions at **1-800-631-3811** or visit **http://www.tacp.com/customersupport/contact.asp.**
- **In Canada**, call TCL Customer Service at **1-800-268-3404** or visit **http://www.toshiba.ca**.

**For home network troubleshooting tips, see Chapter 8.**

# Description of fields in the "E-mail Scheduling Setup" window

For instructions on entering data in these fields, see step 5 under "Setting up e-mail scheduling" (☞ page 76).




## E-mail Scheduling

You can select **On** or **Off** for the **E-mail Scheduling** field.

– **When this field is set to On**, it will be possible for the TV to receive e-mails from any PC to remotely schedule and modify recordings and reminders.

– **When this field is set to Off**, it will not be possible for the TV to receive any e-mail, the other fields in this window will be disabled ("grayed out"), and it will not be possible to remotely schedule recordings or reminders via e-mail.

## Check for New Mail

This field controls the frequency of checking e-mail. Options are 5 min, 15 min, 30 min, and 1 hour.

## ID Required

You can select **Yes** or **No** for the **ID Required** field.

– **When this field is set to Yes** (***recommended***), the ID you entered in the "ID" field must be included in all e-mails you send to the TV. This is a security feature to protect your TV from unauthorized e-mail access.

– **When this field is set to No**, you do not need to include the ID in e-mails you send to the TV.

## ID

Use the software keyboard to enter six to 16 numbers and/or letters to create your ID (spaces and punctuation are **not** allowed).

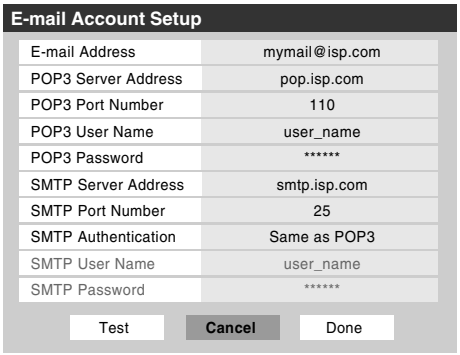
***Note:***

- *To help protect your privacy, you may want to choose an ID that is different from any of your usual passwords or security PINs (e.g., different from your personal e-mail password, banking login code, social security number, etc.).*
- *The ID is case sensitive.*

## Authorized E-mail

Enter the single e-mail address that is authorized to send e-mails to the TV (e.g., your personal e-mail address).

# Description of fields in the "E-mail Account Setup" window




## E-mail Address

Use the software keyboard to enter the TV's dedicated e-mail address (different from your personal e-mail address). You will send e-mails to this address to add, modify, or delete schedules and reminders.

## POP3 Server Address

Use the software keyboard to enter the POP3 server address that hosts the TV's e-mail account.

***Note:*** *The TV does not support encrypted e-mail.*

## POP3 Port Number

Denotes the port number used by the user's POP3 (incoming mail) server. This is set to 110 by default.

## POP3 User Name

Use the software keyboard to enter the TV's e-mail account login. Depending on your ISP, this may be the entire e-mail address or just the characters in the e-mail address before the "@" sign.

## POP3 Password

Use the software keyboard to enter the password for the TV's e-mail account.

***Note:*** *To help protect your other personal Internet or e-mail accounts, create a password that is significantly different from any of your usual passwords and security PINs (e.g., different from your e-mail password, banking log-ons, social security code, etc.).*

## SMTP Server Address

Use the software keyboard to enter the SMTP mail server associated with the TV's e-mail account. (The TV will use this server for sending reply e-mails to your personal e-mail account.)

## SMTP Port Number

Denotes the port number used by the user's SMTP (outgoing mail) server. This is set to 25 by default. Some ISPs block this port to prevent mail relay attacks and specify an alternate port.

## SMTP Authentication

This field controls the SMTP authentication feature, and is set to **Off** by default. Setting this to "Same as POP" fills the SMTP Username and SMTP Password fields with the data filled in the "POP3 User Name" and "POP3 Password" fields. Select "Different" if the username and password for your outgoing (SMTP) mail server are different from your incoming (POP3) mail server.

## SMTP User Name

This field holds the user name required by the SMTP (outgoing email) server. This is typically the same as the "POP3 User Name" field, but may be different depending on the ISP/SMTP server used. This field is enabled only if SMTP authentication field above is set to "Different."

## SMTP Password

This field holds the password required by the SMTP server. This is typically the same as the "POP3 Password" field used to receive e-mails, but may be different depending on the ISP/SMTP server used. This field is enabled only if SMTP authentication field (described above) is set to "Different."

***Note:*** *There are several techniques used for SMTP authentication by e-mail providers. Only the most commonly used techniques (Network address-based, "POP before SMTP," and "AUTH LOGIN") are provided for your TV e-mail scheduler. SSL and TLS are currently not supported.*

**For home network troubleshooting tips, see Chapter 8.**

# I. Using e-mail scheduling

You can use the e-mail scheduling feature to schedule and delete recordings and reminders by sending a "request e-mail" to the TV's e-mail address from any PC.

The four commands the TV will accept are **ADD, DELETE**, **GET**, and **HELP**, as described in this section.

If you have not already done so, follow the instructions in sections A and B (☞ page 60), and in section H (☞ page 75), before proceeding.

When a recording is scheduled via e-mail, the recording device used will be the VCR connected to the TV's analog A/V OUT terminals (see item 4 on page 9 for the location of the A/V OUT terminals; see the separate *Installation Guide* for various VCR connection examples).

## E-mail parameters

***Note:*** *Some e-mail clients automatically insert e-mail signatures, which the TV will try to process. These may generate unwanted error messages.*

- The maximum allowable e-mail size is 16 KB. E-mails over 16 KB will be automatically deleted.
- E-mails sent to the TV cannot contain any attachments. The TV will automatically delete any e-mail with an attached file.
- E-mails can be formatted either Plain Text or Rich Text Format (HTML style).
- E-mails sent to the TV that are not properly formatted, are from the wrong e-mail address, or have the wrong ID (if specified) will be deleted.
- All e-mails sent to the TV will be deleted eventually.

***Note:***

- ***Toshiba is not responsible for any damage or loss caused directly or indirectly by the failure of the e-mail scheduling feature to record content intended to be recorded.***
- ***Toshiba is not responsible for, nor has any control over, any content recorded and/or viewed using the e-mail scheduling feature. Further, the e-mail scheduling feature is not meant to be used for unauthorized recording and/or viewing of copyrighted works.***
- ***The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.***

## Sending a request e-mail to the TV

**To send a request e-mail to the TV:**

1. Format the e-mail following according to the instructions under "Formatting a request e-mail" on the next page.
2. Send the e-mail to the TV.
3. After the TV receives and processes the e-mail, the TV will send a reply e-mail indicating whether the e-mailed request succeeded or failed. See "Receiving an e-mail from the TV" (☞ page 81).

# Formatting a request e-mail

## Recognized tags

When you send an **ADD**, **DELETE**, **GET**, or **HELP** request e-mail to the TV, the TV will recognize only the tags listed below. These tags (and their accompanying data) must be listed in the body of the request e-mail **in the following order:**

- ID [your ID*]
  *(not required if you set the "**ID Required**" field to **Off**)*
- COMMAND ADD
  (*or* COMMAND DELETE *or* COMMAND GET *or* COMMAND HELP)
- INPUT [name of input to record]
- CHANNEL [channel number of recording or reminder]
- DATE [date of recording or reminder]
- START TIME [start time of recording or reminder]
- DURATION [length of recording or reminder]
- TYPE RECORD
  (*or* TYPE REMIND)

## Tag and data formats

The data for each tag can be formatted in various ways, as described in the following table:

| Tag formats | Data formats |
|---|---|
| ID* | [6- to 16-character alphanumeric]<br>MYID1234* *(example only)* |
| COMMAND<br>(*or* CMD) | ADD<br>DELETE (*or* DEL)<br>GET<br>HELP |
| INPUT<br>(*or* INP) | ANT1 (*or* ANT-1)<br>ANT2 (*or* ANT-2)<br>CABLEBOX (*or* CB)<br>SETTOPBOX (*or* STB)** |
| CHANNEL<br>(*or* CH) | *5* … 38 … 100 … 5-1 … 120-1<br>*[Use a hyphen for digital channels]* |
| DATE | 7-4 (*or* 7-4-05 *or* 7-4-2005 *or* 7/4/05, etc.)<br>*[If the year is not specified, the current year is assumed.]* |
| STARTTIME<br>(*or* START) | 8AM ... 9:30PM<br>*[Noon = 12PM; Midnight = 12AM]* |
| DURATION<br>(*or* DUR) | 30M (*or* 30MIN)<br>2H30M (*or* 2HR30MIN *or* 2:30) |
| TYPE | RECORD (*or* REC)<br>REMIND (*or* REM) |

* The ID is case sensitive. The ID tag is required only if you created an ID in the "**ID**" field and set the "**ID Required**" field to **On**. If you set the "**ID Required**" field to **Off**, you do not need to include the ID tag line in your request e-mail. See "Description of fields in the E-mail Scheduling Setup window" (☞ page 77).

**"Set-top box" and "STB" refer to a satellite set-top box.

# Sample request e-mails

- The examples shown below are for illustration purposes only.
- Styles applied to the sample e-mail text (such as bold, italic, and underline) are for illustration purposes only. You do not need to style the text in your request e-mails.
- The only text in a request e-mail that is case sensitive is the ID. All other text is not case sensitive.

## ADD request e-mail

The **ADD** request allows you to schedule a new recording or reminder.

The required tags for an **ADD** request e-mail are (**in this order**):

- ID [your ID*]
  *(not required if you set the "**ID Required**" field to **Off**)*
- COMMAND ADD
- INPUT [name of input]
- CHANNEL [channel number of recording or reminder]
- DATE [date of recording or reminder]
- START TIME [start time of recording or reminder]
- DURATION [length of recording or reminder]
- TYPE RECORD ...or... TYPE REMIND

*Sample **ADD** request e-mail to schedule a new **recording:***

| *To: [**TV's email address**]*<br>*[Subject can be left blank]* |
|---|
| ID MYID1234*<br>COMMAND ADD<br>INPUT ANT-1<br>CHANNEL 102-1<br>DATE 06/10/2005<br>START TIME 7 PM<br>DURATION 2H15M<br>TYPE RECORD |

*Sample **ADD** request e-mail to schedule a new **reminder:***

| *To: [**TV's email address**]*<br>*[Subject can be left blank]* |
|---|
| ID MYID1234*<br>cmd add<br>input cb<br>ch 4<br>date 7-4<br>start 8:30pm<br>dur 1hr<br>type remind |

## GET request e-mail

When you send a **GET** request e-mail to the TV, you will receive a reply e-mail that lists all currently scheduled recordings and/or reminders.

The only required tag and data for a **GET** request e-mail is **GET**.

*Sample GET request e-mail:*

| *To: [**TV's email address**]*<br>*[Subject can be left blank]* |
|---|
| GET |

### DELETE request e-mail

The **DELETE** request allows you to cancel a scheduled recording or reminder.

The required tags for a **DELETE** request e-mail are (**in this order**):

- ID [your ID*]
  *(not required if you set the "**ID Required**" field to **Off**)*
- COMMAND DELETE
- INPUT [name of input]
- CHANNEL [channel number of recording or reminder]
- DATE [date of recording or reminder]
- START TIME [start time of recording or reminder]
- DURATION [length of recording or reminder]
- TYPE RECORD ...or... TYPE REMIND

*Sample **DELETE** request e-mail to delete an existing **recording**:*

| *To: [**TV's email address**] [Subject can be left blank]* |
|---|
| ID MYID1234*<br>COMMAND DELETE<br>INPUT ANT-1<br>CHANNEL 102-1<br>DATE 06/10/2005<br>START TIME 7 PM<br>DURATION 2H15M<br>TYPE REC |

*Sample **DELETE** request e-mail to delete an existing **reminder**:*

| *To: [**TV's email address**] [Subject can be left blank]* |
|---|
| ID MYID1234*<br>cmd del<br>input cb<br>ch 4<br>date 7-4<br>start 8:30pm<br>dur 1hr<br>type rem |

### HELP request e-mail

When you send a **HELP** request e-mail to the TV, you will receive a reply e-mail that contains helpful information about formatting a request e-mail (syntax, definition of the various commands, etc.).

The only required tag for a **HELP** request e-mail is **HELP**.

*Sample HELP request e-mail:*

| *To: [**TV's email address**] [Subject can be left blank]* |
|---|
| HELP |

* The ID is case sensitive.
The ID tag is required only if you created an ID in the "**ID**" field and set the "**ID Required**" field to **On**. If you set the "**ID Required**" field to **Off**, you do not need to include the ID tag line in your request e-mail. See "Description of fields in the E-mail Scheduling Setup window" (☞ page 77).

## Receiving an e-mail from the TV

**If the request e-mail was successful,** the reply e-mail from the TV to your PC will contain one of the following (or similar) messages, depending on the command you sent to the TV:

- ADD SUCCESS
- DELETE SUCCESS
- GET SUCCESS
- HELP SUCCESS

**If the request e-mail was not successful,** the reply e-mail from the TV to your PC will contain one of the following (or similar) messages, depending on the command you sent to the TV:

- FAILED – SCHEDULE CONFLICT.
  The new recording or reminder you attempted to schedule conflicts with an existing one that was previously scheduled.
  If you want to schedule the new recording or reminder, you will have to **DELETE** the existing one first, and then **ADD** the new one.
- FAILED – COULD NOT UNDERSTAND "Line x."
  The request e-mail has an error in the line of text referenced in the error message. Correct the text and resend the e-mail.
- FAILED – NO DEVICE AVAILABLE.
  Make sure you have a recording device connected to the TV and that all cables are properly connected.
- FAILED – MISC ERROR.
  Make sure all devices and cables are properly connected and that the text in the body of your e-mail is correct, and then send the corrected e-mail to the TV.

## Modifying an existing recording or reminder

### To modify an existing scheduled recording or reminder:

1. Send a **DELETE** request e-mail to cancel the existing recording or reminder.
2. Send an **ADD** request e-mail to schedule the modified recording or reminder.

**For home network troubleshooting tips, see Chapter 8.**

# General troubleshooting

Before calling a service technician, please check this chapter for a possible cause of the problem and some solutions you can try.

### Black box on screen

- The Closed Caption feature is set to one of the Text modes (**T1**, **T2**, **T3**, or **T4**). Set the **Closed Caption** feature to **Off** (☞ page 42).

### LED indications while in reboot from standby

- When you plug the power cord in the red LED will blink until the TV enters standby mode, (plugged in but not powered on). This is normal and is not a sign of malfunction.

### TV stops responding to controls

- If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the POWER button on the TV control panel for 5 or more seconds to reset the TV.

### Other problems

- If your TV's problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Reset Factory Defaults procedure (☞ page 30).

### TV will not turn on

- Make sure the power cord is plugged in, and then press POWER.
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.

### Picture problems

*General picture problems*

- Check the antenna/cable connections (☞ *Installation Guide*).
- Press INPUT on the remote control or TV and select a valid video input source (☞ page 31). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see the *Installation Guide*.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (☞ page 41).
- If you are using a VCR, make sure TV/VCR on the remote control is set to the correct mode (see item 23 on page 13).
- If you have two VCRs connected to your TV, make sure you have not connected the same VCR to the TV's output and input connections at the same time (☞ *Installation Guide*).
- Do not connect both a standard video cable and an S-video cable to the same set of VIDEO inputs (**VIDEO 1**, or **VIDEO 2**) at the same time (☞ *Installation Guide*).

*Noisy picture*

- If you are watching an analog channel (off-air broadcast or Cable TV), you can set the **CableClear**® feature to **AUTO** to reduce visible interference in the TV picture (☞ page 56).

*Video Input Selection problems*

- If the **Input Selection** window does not appear when you press INPUT on the remote control or TV, press INPUT a second time, which will change to the next video input source and display the **Input Selection** window.

*Cannot view external signals or channel 3 or 4*

- If you cannot view signals from external devices connected to **VIDEO 1**, **VIDEO 2**, or **ColorStream**®, or from channels 3 or 4, make sure the **Input Lock** is set to **Off** (☞ page 49).

*Poor color or no color*

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** (☞ page 41).
- When the **ColorStream**® signal source is active, the **VIDEO OUT** terminal does not output video. To receive video from the **VIDEO OUT** terminal, a standard video or **S-video IN** connection must be used instead of the **ColorStream**® connections.

*POP problems*

- If you label all of the inputs as "**Hide**," the POP feature will be disabled. If you then attempt to access the POP feature, the message "Not Available" will appear on-screen (☞ page 39).

*Poor composite or S-video picture*

- If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) try using a **ColorStream** or **HDMI** video connection instead.

*Picture and sound are out of sync*

- As with all products that contain a digital display, in rare instances, when viewing certain content (e.g.. television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:
  - If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture.
  - If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue.

### Sound problems

- Check the antenna/cable connections (☞ *Installation Guide*).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press VOL+.
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (☞ page 44).
- Make sure the Speakers function in the **Audio Setup** menu is set correctly (☞ page 45).
- If you are not receiving a second audio program from a known SAP source, make sure the **MTS** feature is set to **SAP** mode (☞ page 44).
- If you hear audio that seems "incorrect" for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the **MTS** feature to **Stereo** mode (☞ page 44).
- When using an external audio amplifier, if you connect the amplifier to the **VAR. AUDIO OUT** terminals, the volume of the TV and amplifier must be set above 0 or you will not hear any sound (☞ *Installation Guide*).

### Remote control problems

- Make sure the remote control is set to the correct device mode (☞ page 16).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (☞ page 11).
- Your TV remote control may not operate certain features on your external device. Refer to the owner's manual for your other device to determine its available features. If your TV remote control does not operate a specific feature on another device, use the remote control that came with the device (☞ page 16).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (☞ page 30).

### Channel tuning problems

- Make sure the remote control is set to the correct device mode (☞ page 16).
- The channel may have been erased from the channel memory by the **Channel Add/Delete** feature. Add the channel to the channel memory (☞ page 27).
- The channel may be blocked by the **Channels Block** feature. Unblock the channel (☞ page 48).
- If you are unable to tune digital channels, check the antenna configuration (☞ page 25). If you are still unable to tune digital channels, clear all channels from the channel list (☞ page 27) and reprogram channels into the channel memory (☞ page 26). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (☞ page 30). Also see "TV stops responding to controls" and "Other problems" (☞ page 82).

### Closed caption problems

- If the program or video you selected is not closed-captioned, no captions will display (☞ page 42).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (☞ page 42).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (☞ page 42).

### Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press RECALL four times within 5 seconds. The PIN code you previously stored will be cleared (☞ page 46).
- The V-Chip feature is available for the U.S. V-Chip system only (☞ page 47).

### Recording problems

- If you use the TV's remote control to start recording, you will not be able to change inputs (☞ page 31) or open the POP window (☞ page 39). If you attempt to do so, the message "Not Available While Recording" will appear on-screen.
- If you are recording a digital channel, you can only change analog channels while recording is in progress. If you are recording an analog channel, you can only change digital channels while the recording is in progress. This is because the TV tuner that is being recorded (digital or analog) will be locked on the channel that is currently recording.
- It is recommended that you use the TV's remote control to start recording. If you use a device other than the TV's remote control to start recording and then attempt to access a feature that is normally denied during recording (POP mode, changing inputs,) the recorded audio and/or video may not be what you intended to record.

### Audio Player problems

*The Audio Player stutters and/or stops when playing files over the network*

- The networked PC is not available, was removed from the network, or is in "hibernation." The Ethernet cables are not connected properly. Check all cables for proper connection.
- Sufficient network band-width is not available. Turn off any other file sharing programs, network-based games, or other network-intensive operations while the **Audio Player** is playing.

*"No media found" message is displayed*

- Sharing is not correctly set up on the networked PC. Make sure you connected your home network correctly (☞ *Installation Guide*) and set up the network address properly (☞ Chapter 7).
- The MP3 files exceed the specified limits (☞ "Media specifications" in Chapter 7).

*(continued)*

*Title or artist name is not displayed*

- The MP3 file does not contain valid meta-data or does not meet supported specifications (☞ "Media specifications" in Chapter 7).

*The **Audio Player** takes almost a minute to start*

- Sufficient network band-width is not available. Turn off any other file sharing programs, network-based games, or other network-intensive operations while the **Audio Player** is playing.
- The shared folder has too many files or sub-folders. If the shared folder on the networked PC contains a large number of files or nested directories, it may take over a minute for the **Audio Player** to locate all playable files.

*The File is displayed but is always skipped*

- The file is not a valid or supported MP3 file.

*Some files in the shared folder are not played*

- Only the first 200 MP3 files found will be played. Folders nested 10 or more levels below the shared folder are not searched.

*The Audio Player plays (progress bar and animation change) but audio is not heard*

- The volume level is not high enough or TV is muted.

### Picture Viewer problems

*"No pictures found" message is displayed.*

- Sharing is not correctly set up on the networked PC. Make sure you connected your home network correctly (☞ *Installation Guide*) and set up the network address properly (☞ Chapter 7).
- The JPEG files exceed the specified limits (☞ "Media specifications" in Chapter 7).

*Picture viewer option in menu is disabled.*

- There are no picture files in the networked PC's shared folder(s).
- Basic network setup and Home server setup were not successfully performed.

*Picture is not displayed. Rectangle containing "X" is displayed instead.*

- The picture file does not meet the specifications for the **Picture Viewer** (☞ "Media specifications" in Chapter 7).

*Picture is not listed at all.*

- There are no picture files in the networked PC's shared folder(s).
- The number of pictures files found is more than the TV can display.
- The picture file does not have a valid ".jpg" extension.
- The file is too large or is otherwise not compatible with the TV for display. See "Media specifications" in Chapter 7 for Picture Viewer and JPEG file specifications.

# Home network troubleshooting

### Basic network setup problems

*Cannot connect to network*

- Check the modem and splitter connections.
- Make sure the splitter is connected to the modem or telephone jack correctly (☞ page 60).
- Confirm your modem's operation with this manual.
- Make sure your network address and e-mail account are set up correctly (☞ Chapter 7).

*No network connection*

- The Ethernet cables are not connected properly or at all. Connect all cables(☞ *Installation Guide*).
- Make sure the modem's power cord is plugged in.
- Make sure your network address and e-mail account are set up correctly (☞ Chapter 7).

*Automatic setup fails*

- The Ethernet cables are not connected properly or at all. Connect all cables(☞ *Installation Guide*).
- The DHCP service is not enabled on the router, or no router is present. Refer to your router's documentation for instructions on enabling DHCP. If you do not have a router, you must manually set up the network address (☞ page 62).
- Internet service is not available. Check your cable/DSL modem or contact your ISP for Internet service issues.

*Manual setup fails*

- The Ethernet cables are not connected properly or at all. Connect all cables (☞ *Installation Guide*).
- The TV IP address is the same as the networked PC's. The TV IP address must be different from the PC's IP address.
- The TV IP address is not on the same subnet as the networked PC's. For example, if the PC has IP 192.168.0.100 with netmask 255.255.255.0, and the TV has IP 192.168.0.200 with netmask 255.255.255.0, then they are both on same subnet. Conversely, if the PC has IP 192.168.1.100 with netmask 255.255.255.0, and the TV has IP 192.168.0.200 with netmask 255.255.255.0, then they are on DIFFERENT sub-nets.

*Unstable network connection*

- Unplug the Ethernet cables, and then connect them again.

## Home server setup problems

*The PC ("Home Server") name is not displayed*

- The Ethernet cables are not connected properly or at all. Connect all cables (☞ *Installation Guide*).
- The network setup on the PC is incorrect. Make sure both the PC and TV are using the same network type (DHCP/manual) and have compatible network settings.
- The networked PC does not have shared folders set up correctly. See "Setting up file sharing on your PC" in Chapter 7 for details.
- There are no master browsers on the network. To configure your networked PC to be the master browser of its subnet, refer to your operating system user guide or consult an IT professional.
- Too many sharing devices are connected. You cannot connect more than 16 sharing devices at one time.

*The PC ("Home Server") name is displayed but the shared folder(s) are not displayed.*

- The networked PC does not have shared folders set up correctly. See "Setting up file sharing on your PC" in Chapter 7 for details.
- The TV's user name and password do not match the PC's. Make sure the user name and password settings in the TV exactly match the settings in the networked PC. User names and passwords are generally case sensitive.

## E-mail scheduling problems

*Cannot schedule a recording by e-mail*

- Select "Test" to confirm the e-mail scheduling setup (☞ page 76).
- Select "Done" after setting up e-mail scheduling (☞ page 76).
- See Chapter 7 in this manual.

*E-mail test fails after waiting a long time*

- The Ethernet cables are not connected properly or at all. Connect all cables(☞ *Installation Guide*).
- The DNS (domain name server) is not set up correctly. Check the network settings.
- The SMTP and POP3 server settings are incorrect.
- The "E-mail Address," "POP3 User Name," or "POP3 Password" settings are incorrect. User names and passwords are generally case sensitive.

*Receiving succeeds but sending fails, or vice-versa*

- The SMTP and POP3 server settings are incorrect.
- The "E-mail Address," "POP3 User Name," or "POP3 Password" settings are incorrect. User names and passwords are generally case sensitive.
- Your Internet service provider may not support SMTP or POP3 protocols. Check with your ISP for details on supported protocols.

*The e-mail test passes, but the TV never responds to the e-mails*

- E-mail scheduling is turned **Off**. Turn e-mail scheduling **On** (page 76).
- The sender's e-mail address is not the "Authorized E-mail Address." Make sure the e-mail address you are using to send e-mails to the TV is the same as the "Authorized E-mail Address" in the TV's e-mail scheduling setup. See "Setting up e-mail scheduling" in Chapter 7.

***Note:*** *Responses from the TV can often be delayed a few minutes, depending on e-mail/Internet service availability when you send the request e-mail.*

*An ADD or DELETE request e-mail returns an "INVALID MAIL VERIFICATION ID" reply*

- The e-mail authorization ID is not specified or is different from the TV settings. See "Setting up e-mail scheduling" in Chapter 7.

*The e-mail was successfully sent but the recording or reminder did not work.*

- See "Setting the time and date" on page 28.

## Personal E-mail problems

*Cannot send or receive mail*

- Your mail settings may be incorrect. Ensure that you have POP3 and SMTP e-mail service enabled with your ISP. The Personal E-mail feature does not work with web-browser-based (HTTP based) e-mail services.
- Your network settings may be incorrect. Contact your ISP.

*Characters in incoming mail are not displayed properly*

- The character encoding methods supported are US-ASCII, ISO-8859-1, UTF-8, ISO-2022-JP, SHIFT_JIS, and EUC-JP. No other encoding methods are supported.

*Images in HTML mail are not displayed*

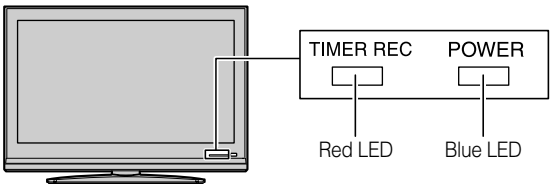
- Depending on the type of HTML, some images may not display.

# LED indications

The blue and red LED lights on the TV front indicate the TV's status, as described below:

***Note:*** *If the TV loses A/C power (e.g., a power outage occurs or the power cord is unplugged), when power is restored, the red LED will blink while the TV is booting until the remote control is usable. This is normal and is not a sign of malfunction.*

TV front




| LED Indication | Condition | Solution |
|---|---|---|
| **1) Blue is ON (solid).** | The TV is operating properly. | – |
| **2) Red is ON (solid).** | Recording is in progress. | – |
| **3) Red blinks three times.** | The TV is rebooting. | Wait several seconds until the red LED stops blinking. |
| **4) Blue blinks. Red blinks.** | Fan stopped (SET). | Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV. |
| **5) Blue is on (solid). Red blinks.** | Fan stopped (CableCard). | |
| **6) Blue blinks slowly.** | Abnormal operation of BUS line. | |
| **7) Blue blinks quickly.** | Power Protect Detection. | |

If, after trying the solution, the problem still exists:

- In the U.S., call TACP Consumer Solutions at 1-800-631-3811.
- In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to **www.toshiba.ca**; click "Home Entertainment," and then click "Support."

# Specifications

***Note:***

- ***This model complies with the specifications listed below.***
- ***Designs and specifications are subject to change without notice.***
- ***This model may not be compatible with features and/or specifications that may be added in the future.***

**Television System**

NTSC standard
ATSC standard (8VSB)
Digital Cable (64 QAM, 256 QAM; in-the-clear, unencrypted*)

**Channel Coverage**

VHF: 2 through 13
UHF: 14 through 69
Cable TV: Mid band (A-8 through A-1, A through I)
Super band (J through W)
Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 135)

**Power Source**

120 V AC, 60 Hz

**Power Consumption**

42LZ196: 191 W (average)
33 W in standby mode (using a CableCARD™)
29 W in standby mode (without a CableCARD™)
47LZ196: 207 W (average)
35 W in standby mode (using a CableCARD™)
31 W in standby mode (without a CableCARD™)

**Audio Power**

10 W + 10 W

**Speaker Type**

Main: Four 2-3/8 × 4-3/4 inches (6 × 12 cm)
Tweeter: Two 1-1/16 inches (33 mm) round

**Video/Audio Terminals**

**S-VIDEO INPUT:**
Y: 1 V(p-p), 75 ohm, negative sync.
C: 0.286 V(p-p) (burst signal), 75 ohm

**VIDEO/AUDIO INPUT:**
VIDEO: 1 V(p-p), 75 ohm, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 22 k ohm or greater)

**ColorStream® (component video) HD INPUT:**
VIDEO: Y: 1V(p-p), 75 ohm
$P_R$: 0.7 V(p-p), 75 ohm
$P_B$: 0.7 V(p-p), 75 ohm
Suggested formats: 1080i, 480p, 480i, 720p
AUDIO: 150 mV(rms), 22 k ohm or greater

**HDMI™ INPUT:**
HDMI compliant (type A connector)
HDCP compliant
E-EDID** compliant
Suggested formats: 1080p, 1080i, 480p, 480i, 720p
HDMI Audio: 2-channel L-PCM; 32/44.1/48 kHz sampling frequency; 16/20/24 bits per sample and Dolby Digital

**VIDEO/AUDIO OUTPUT (also for recording):**
VIDEO: 1 V(p-p), 75 ohm, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 2.2 k ohm or less)

**DIGITAL AUDIO OUTPUT:**
Optical type

**VARIABLE AUDIO OUTPUT:**
0–300 mV(rms) (30% modulation equivalent, 2.2 k ohm or less)

**G-LINK™ and IR IN/OUT:**
3 V(p-p), 3.5 mm mono socket (IR blaster cables supplied)

**PC INPUT:**
15-Pin D-sub Analog RGB

**RJ-45 port:**
Standard Ethernet (RJ-45)

**Dimensions**

42LZ196: Width: 41-1/8 inches (1,042 mm)
Height: 30.0 inches (762 mm)
Depth: 13-7/8 inches (352 mm)
47LZ196: Width: 44-5/8 inches (1,132 mm)
Height: 31-3/8 inches (795 mm)
Depth: 13-7/8 inches (352 mm)

**Weight**

42LZ196: xx lbs (xx kg)
47LZ196: xx lbs (xx kg)

**Operating conditions**

Temperature: 32ºF–95ºF (0ºC–35ºC)
Humidity: 20–80% (no moisture condition)

**Supplied Accessories**

- Remote control with two size "AA" alkaline batteries
- Dual-wand IR blaster cable
- Installation Guide
- Operating Guide (this book)
- TV Guide On Screen™ Interactive Program Guide
- Lead clip
  Use this clip to attach the TV to a wall, pillar, or other immovable structure. See item 19 on page 3 of the separate *Installation Guide*.

* Encrypted channels can be viewed on this TV using a CableCARD™ (☞ *Installation Guide*).

** E-EDID = Enhanced-Extended Display Identification

# Limited United States Warranty

## for LCD Televisions 26" and Larger

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. LCD TELEVISIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.
LCD TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

**Limited One (1) Year Warranty on Parts and Labor**
TACP warrants this LCD Television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. During this period, TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the LCD Television will be taken to a TACP Authorized Service Station for repair and returned to your home at no cost to you.

**Rental Units**
The warranty for LCD Television rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

**Limited Warranty for Commercial Units**
TACP warrants LCD Televisions that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

**Owner's Manual and Product Registration Card**
Read this owner's manual thoroughly before operating this LCD Television.

Complete and mail the enclosed product registration card or register your LCD Television online at **www.tacp.toshiba.com/service** as soon as possible. By registering your LCD Television you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. **Failure to complete and return the product registration card does not diminish your warranty rights.**

**Your Responsibility**

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must retain your original bill of sale or provide other proof of purchase.
(2) All warranty servicing of this LCD Television must be performed by an Authorized TACP Service Station.
(3) The warranties from TACP are effective only if this LCD Television is purchased and operated in the Continental U.S.A. or Puerto Rico.
(4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.
(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD Television or parts that have been lost or discarded by you or to damage to the LCD Television or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this LCD Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

**How to Obtain Warranty Service**

If, after following all of the operating instructions in this manual and reviewing the section entitled "Troubleshooting," you find that service is needed:

(1) To find the nearest TACP Authorized Service Station, visit TACP's website at **www.tacp.toshiba.com/service** or contact TACP's Consumer Solution Center toll free at 1-800-575-5469.
(2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station.

**For additional information, visit TACP's website: www.tacp.toshiba.com**

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS LCD TELEVISION).

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute or law of the United States or any state thereof is hereby limited to ninety (90) days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

[0305]

# Limited Canada Warranty

## for LCD Televisions

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada.

LCD TVs PURCHASED IN CANADA AND USED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

LCD TVs PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TV AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

**Limited One (1) Year Warranty on Parts and Labor**

TCL warrants this LCD TV and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR.

a) **FOR LCD TVs UNDER 37":**

To receive warranty service, you must return the LCD TV to a TCL Authorized Service Depot.

b) **FOR LCD TVs 37" AND LARGER:**

During this period, TCL Authorized Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the LCD Television will be taken to a TCL Authorized Service Depot for repair and returned to your home at no cost to you. **IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.**

**Rental Units**

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

**Commercial Units**

LCD TVs sold and used for commercial purposes have a limited ninety (90) day warranty for all parts and labor.

**Owner 's Manual and Product Registration**

Read this owner's manual thoroughly before operating this LCD TV. If you purchased your LCD TV in Canada, register it online at **www.toshiba.ca** as soon as possible. By registering your product you will enable TCL to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required. **Failure to register online does not diminish your warranty rights.**

**Your Responsibility**

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.
(2) All warranty servicing of this LCD TV must be made by an Authorized TCL Service Depot.
(3) The warranties from TCL are effective only if the LCD TV is purchased in Canada from an authorized TCL dealer and operated in Canada.
(4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD TV or parts that have been lost or discarded by you or to damage to the LCD TV or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; use or malfunction through simultaneous use of this product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

**How to Obtain Warranty Services**

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

(1) To find the nearest TCL Authorized Service Depot, visit TCL's web site at **www.toshiba.ca**.
(2) Present your bill of sale or other proof of purchase to the Authorized Service Depot.

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# Index


## A

Antenna input configuration ..... 25
Audio player ..... 70
Audio quality adjustments ..... 44
Auto aspect ..... 38
Auto power off ..... 53

## B

Back of the TV ..... 9
Blocking channels ..... 48

## C

C (CLOSED). CAPTION button ..... 43
CableCARD™ ..... 29
CableClear® ..... 56
CH RTN button ..... 35
CH ▲▼ buttons ..... 34
Channel Browser™ ..... 32
Channel Browser™ Setup ..... 33
Channel Number buttons ..... 34
Channel programming
  Automatic programming ..... 26
  Manually adding and deleting ... 27
Cinema mode ..... 38
Closed captions ..... 42
Color management pro ..... 57
Color temperature ..... 55

## D

Defaults, reset TV factory ..... 30
Device codes table ..... 18
Digital audio selector ..... 43
Digital signal meter ..... 29
Dolby Digital Dynamic Range Control ..... 45
Dolby Virtual/SRS TruSurround ..... 59
Double-window POP feature ..... 39
Dynamic contrast ..... 54

## E

E-mail account setup ..... 76
E-mail recording ..... 60
E-mail scheduling ..... 75

## F

Features, TV ..... 6
FREEZE ..... 40
Front of the TV ..... 8

## G

Game Mode feature ..... 58
GameTimer™ ..... 50

## H

HDMI™ audio mode ..... 28
Home file server setup ..... 66

## I

ID ..... 77
INPUT button ..... 31
Input lock feature ..... 49
Internet service provider ..... 60

## J

JPEG ..... 67

## L

Labeling video input ..... 31
Language selection ..... 25
Last mode memory feature ..... 53
LED indications ..... 86
LOCKS menu
  Channels, blocking ..... 48
  Enable rating blocking ..... 47
  New PIN code ..... 46
  Panel lock ..... 50
  Unlocking programs temporarily 49
  Video inputs, locking ..... 49
Locks menu ..... 46

## M

Menu system ..... 22
MODE SELECT ..... 12, 16
MP3 ..... 68, 70
MPEG noise reduction ..... 56
MTS feature ..... 44
MUTE button ..... 43

## N

Network address, setup ..... 61

## O

On/Off timer ..... 51
Optical audio output format ..... 45

## P

PC Audio ..... 52
PC settings ..... 52
Personal E-mail feature ..... 73
Personal E-mail setup ..... 71
Picture adjustment ..... 41
Picture mode ..... 41
Picture quality ..... 41
Picture scroll ..... 37
Picture size selection ..... 36
Picture Viewer ..... 67, 68
POP button ..... 39
POP3 Password ..... 78
POWER button ..... 8

## R

RECALL button ..... 53
Remote control
  Battery installation ..... 11
  Effective range ..... 11
  Learning about the buttons ..... 12
  Operational feature ..... 17
  Volume lock feature ..... 17

## S

SAP sound ..... 44
Scroll settings ..... 37
Selecting Menu Language ..... 25
Setting up file sharing ..... 63
Side panel control ..... 8
Sleep timer ..... 51
Slide show ..... 69
Speaker On/Off ..... 45
Specifications ..... 87
StableSound® ..... 44
Stereo sound ..... 44
SurfLock™ ..... 35
System status ..... 30

## T

TheaterWide® picture size ..... 36
THINC button ..... 12
THINC™ system ..... 10
Time and date setting ..... 28
Troubleshooting ..... 82
TV GUIDE button ..... 12

## V

V-Chip blocking (Locks menu) ..... 46
Video input label ..... 31

## W

Warranty
  Canada ..... 89
  U.S. ..... 88
WOW:SRS 3D ..... 59
WOW:SRS Focus ..... 59
WOW:SRS TruBass ..... 59

## Notes

# Notes

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